ORDER NO. MKE0101101C1

B3

Service Manual

Combination VCR

Omnivision VHS



PVQ-1311 / PV-C1321 / PV-C1331W / VV-1301 / VV-1311W / PV-C1341 / PV-C1351W / PV-C2011 / PV-C2021 / PV-C2031W / VV-2001 / PV-C2061



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ITE	EM	SPECIFICATION	12	34	56	ITE	EM	SPECIFICATION	1 2	234	456
	Video	Head: 2 rotary heads helical scanning system 4 rotary heads helical scanning system Input Level: VIDEO IN Jack (Phono type) 1.0 Vp-p 75 Ω unbalanced Signal-to-Noise Ratio: SP: more than 43 dB	1-1-	- o: o -	-	VCR		SP: 1-5/16 i.p.s (33.35 mm/s), LP: 21/32 i.p.s (16.67 mm/s), SLP: 7/16 i.p.s (11.12 mm/s) Record/Playback Time: Br. with 160 min. type tape used in SLP mode FF/REW Time: Less than 2-1/2 min. (120 min. type tape)	00)OC	000
				0000	-		Tape Format Band	Tape width 12.7 mm (1/2 inch) high density tape	$^{+}$	$^{\rm H}$	000
		Head: Normal Mono: 1 stationary head	ao	00	00	FM Radio	Range	87.5 MHz-108.1 MHz		, ok	-00
		Input Level: AUDIO IN Jack (Phono type) -10 dBv 50 kΩ unbalanced Frequency Response: Normal Mono: SP: 100 Hz-8 kHz					Picture Tube	13 inch measured diagonal 90 ° deflection Picture Tube 20 inch measured diagonal 90 ° deflection Picture Tube		-1-1	 000
VCR	Audio		00	000				Source: 120 V AC±12 V AC, 60 Hz±3 Hz	00	ook	000
		Signal-to-Noise Ratio: Normal Mono: SP: more than 42 dB LP/SLP: more than 40 dB				>	Power	Consumption: Approx. 69 W (Power On), Approx. 4.0 W (Power Off) Approx. 110 W (Power On), Approx. 4.0 W (Power Off	00		000
		Wow and Flutter: Normal Mono: SP: Less than 0.2 % WRMS LP: Less than 0.3 % WRMS	Ш	0000	00	GENERAL	Television System	EIA Standard (525 lines, 60 fields) NTSC Color Signal	00	oc	000
		SLP: Less than 0.4 % WRMS Broadcast Channels: VHF 2-13, UHF 14-69 CABLE Channels: Midband A through I (14-22) Superband J through W (23-36) Hyperband AA-EEE (37-64) Lowband A-5-A-1 (95-99)		0000			Operating Condition	5 °C-40 °C (41 °F-104 °F) (Temperature) 10 %-75 % (Humidity)	00	ю	000
	Tuner		ao				Dimension (W x H x D)	386 mm x 385 mm x 374 mm (15-3/16 inch x 15-3/16 inch x 14-3/4 inch) 515 mm x 505mm x 474 mm (20-5/16 inch x 19-7/8 inch x 18-11/16 inch)			000
		Special CABLE channel 5A (01) Ultraband 65~94, 100~125					Weight	12 kg (26.4 lbs.) 23 kg (50.6 lbs.)	00)o.	 000

^{1.} PVQ-1311/VV-1301/VV-1311W

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic / Quasar

1. SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by A in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

2. An Isolation Transformer should always be used during the servicing

^{2.} PV-C1321/PV-C1331W 3 PV-C1341/PV-C1351W

^{4.} PV-C2011/VV-2001

^{5.} PV-C2021/PV-C2031W

of Combination VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect Combination VCR from being damaged by accidental shorting that may occur during servicing.

- 3. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shield, and isolation R-C combinations are properly installed.
- 5. Before turning the receiver on, measure the resistance between B+ line and chassis ground. Connect (-) side of an ohmmeter to the B+ lines, and (+) side to chassis ground. Each line should have more resistance than specified, as follows:

(For model with 13 inch CRT)

```
B+ Line
```

Minimum Resistance

130.0 V

1 k Ω (Cold chassis ground)

23.5 V

180 Ω (Cold chassis ground)

13.0 V

110 Ω (Cold chassis ground) (For model with 20 inch CRT)

B+ Line

Minimum Resistance

130.0 V

1 k Ω (Cold chassis ground)

21.5 V

180 Ω (Cold chassis ground)

15.9 V

110 Ω (Cold chassis ground)

- 6. When the TV set is not used for a long period of time, unplug the power cord from the AC outlet.
- 7. Potentials, as high as 25.0 kV (For model with 13 inch CRT) or 30.0 kV (For model with 20 inch CRT) are present when this TV set is in operation. Operation of the TV set without the rear cover involves the danger of a shock hazard from the TV set power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the CRT ground of receiver before handling the tube.
- 8. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. For physically operated power switches, turn power on. Otherwise skip step 2.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, connectors, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M Ω and 12 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinity.

LEAKAGE CURRENT HOT CHECK

- Plug the AC cord directly into the AC outlet.
 Do not use a isolation transformer for this check.
- 2. Connect a 1.5 k Ω , 10 W resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good

earth ground, as shown in Figure 1.

- 3. Use an AC voltmeter, with 1 k Ω /V or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks. Leakage current must not exceed 1/2 mA. In case a measurement is outside of the limits specified, there is a possibility of shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

AC VOLTMETER

O.15 μF

TO APPLIANCES EXPOSED METAL PARTS

1.5 ΚΩ. 10 W

Figure 1

2. X-RADIATION

WARNING:

- 1. The potential source of X-Radiation in TV sets is the High Voltage section and the picture tube.
- 2. When using a picture tube test fixture for service, ensure that the fixture is capable of handling 25.0 kV (For model with 13 inch CRT) or 30.0 kV (For model with 20 inch CRT) without causing X-Radiation.

NOTE:

It is important to use an accurate periodically calibrated high voltage meter.

- 1. Reduce the brightness to minimum.
- 2. Set the SERVICE switch to SERVICE.
- 3. Measure the High Voltage. The meter reading should indicate 23.5 kV ±1.5 kV (For model with 13 inch CRT) or 28.5 kV±1.5 kV (For model with 20 inch CRT).
 - If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibly, it is essential to use the specified picture tube.

HORIZONTAL OSCILLATOR DISABLE CIRCUIT TEST SERVICE WARNING:

The test must be made as a final check before set is returned to the customer.

- 1. With the rear cover removed, supply about a 90 V AC power source to the set, turn on the set.
- 2. Set the customer controls to normal operating positions.
- 3. Short between TP891 and TP892 on the Main circuit board with a jumper wire. Confirm that the picture goes out of horizontal sync.
- 4. If this does not occur, the horizontal oscillator disable circuit is not operating. Follow the Repair Procedures of horizontal oscillator disable circuit before the set is returned to customer.

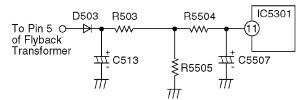
REPAIR PROCEDURES OF HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- 1. Connect a DC voltmeter between capacitor C513 (+) on the Main circuit board and chassis ground.
- 2. If approximately +21.0 V (For model with 13 inch CRT) or +21.9 V (For model with 20 inch CRT) is not present at that point when 120 V AC is applied, find the cause. Check R503, R5505, C5507, C513 and D503.
- 3. Carefully check above specified parts and related circuits and parts. When the circuit is repaired, try the horizontal oscillator disable circuit test again.

CIRCUIT EXPLANATION
HORIZONTAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage, supplied from the D503 cathode for monitoring high voltage, is applied to the IC5301 Pin11 through R503 and R5504. Under normal conditions, the voltage at IC5301 Pin 11 is less than approx 3 V. If the high voltage at Flyback Tr Pin 5 exceeds the specified voltage, the positive DC voltage which is supplied from the D503 cathode also increases. The increased voltage is applied to IC5301 Pin11 through R503 and R5504. Due to the increased voltage at IC5301 Pin11, the horizontal oscillator frequency increases, the picture goes out of horizontal sync, the beam current decreases and the picture becomes dark in order to keep X-radiation under specification.

Figure 2



3. PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors are semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.

- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. CAUTION:
 - Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

"NOTE to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

4. OPERATION GUIDE

5. SERVICE NOTES (PLEASE READ)

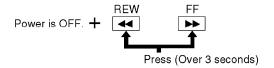
5.1. SERVICE NOTES

5.1.1. SIMPLIFIED FAULT FINDING DATA

Simplified Self-Diagnostic System facilitates finding the cause of the fault. A 4 digit for fault code and communication for I2C bus code will be displayed on TV screen.

The Simplified Fault finding data is stored in the Memory IC (IC6004). This data is cleared after it is displayed, and then the POWER button is pressed back on.

1. With power turned off, press FF and REW buttons on unit together for over 3 seconds.



2. TV power goes on and the unit goes into service mode. 4 digit for fault code and communication for I₂C bus code will be displayed.

Fig. 1-2

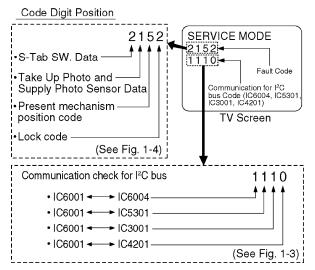


Fig. 1-3

(Communication check for I²C bus)

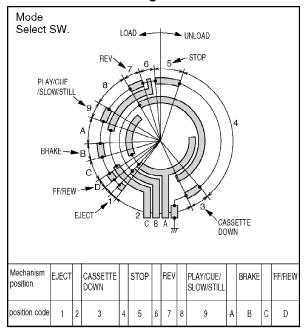
Explanation of Codes	С	Code No.		
Communication check for I²C bus (IC6001 4 → IC6004) NG OK	0			
Communication check for I²C bus (IC6001←→IC5301) NG OK		0		
Communication check for I²C bus (IC6001 NG OK			0	
Communication check for I²C bus (IC6001++IC4201) NG OK Note: For Normal Audio models, 4th digit of code No. will not be displayed because IC4201 (Hi-Fi Audio IC) is not used.				0

Fig. 1-4

(Fault Code)

С	od	No.	
1 2			
	1 2		
	3		
	H		
		123456789ABCD	
		1	0123 44
	1	1 2	2

Fig. 1-5



3. Press any operation button except for POWER on either the unit, or the remote to detect that a key has been pressed. The 1st digit changes to "0" only when key is detected.

Fig. 1-6 SERVICE MODE 2152 Any operation button 1110 Press SERVICE MODE 0192 1110 Changes to "0"

Note:

When 1 to 4 listed in Lock code occurs, the VCR stops and all VCR function buttons except for power become non-operational.

5.1.2. USAGE SCREEN MODE

Function displayed on the TV monitor:

- the total elapsed "Power on" time (in days)
- the total elapsed "Cylinder rotation" time (in hours)

<TV monitor>

1. With power turned on and no cassette, press STOP/EJECT button on unit and 7 key on remote together. The USAGE SCREEN will be displayed on the TV Monitor.

USAGE SCREEN The total elapsed "Power 00000 DAY on" time (in days) The total elapsed "Cylinder CYLINDER ACTIVE: 00000 HOUR rotation" time (in hours). PUSH ANY KEY TO EXIT

Fig. 1-7

Note:

- 1. After replacing the Cylinder Unit, press COUNTER RESET button on remote in this mode. Only Total elapsed "Cylinder rotation" time (in hours) will be cleared to 0.
- 2. To release from Usage Screen Mode, press any operation button on unit or insert a cassette tape in this mode. The unit will return to normal operation mode.

5.1.3. SERVICE POSITION

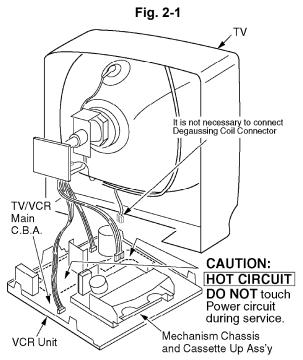
5.1.3.1. Service Position

Service Position	Purpose
Service Position (1)	Mechanism check Mechanical adjustment Electrical adjustment
Service Position (2)	TV/VCR Main C.B.A. check

CAUTION:

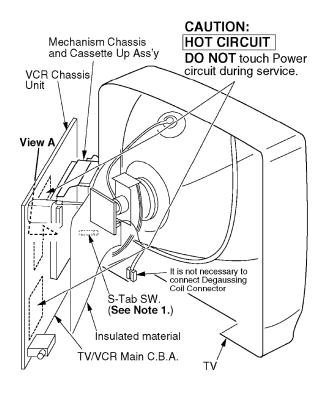
HOT CIRCUIT (Primary circuit) exists on the TV/VCR Main C.B.A. Use extreme care to prevent accidental shock when servicing.

5.1.3.2. Service Position (1)



5.1.3.3. Service Position (2)

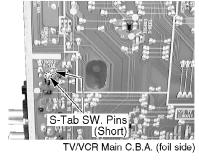
Fig. 2-2



Note:

1. It is possible that the S-Tab SW. may not work correctly in Service Position (2). (Recording can not be done). In this case, short the S-Tab SW. Pins on the foil side of the TV/VCR Main C.B.A. to turn this SW. on.

Fig. 2-3



View A

Alternative method: Cover the S-Tab SW. with masking tape.

2. When disassembling/assembling, refer to "CABINET SECTION" in DISASSEMBLY/ASSEMBLY PROCEDURES.

5.1.4. HOT CIRCUIT

Primary circuit exists on the TV/VCR Main C.B.A.

This circuit is identified as "HOT" on the C.B.A. and in the Service Manual. Use extreme care to prevent accidental shock when servicing.

5.1.5. SERVICE MODE

In order to inhibit detection of the Supply & Takeup Photo Transistors, Reel Sensor, and Cylinder Lock, press and hold STOP/EJECT, PLAY/REPEAT, and CH down buttons on the unit together over 5 seconds in power on condition.

Fig. 3

STOP/EJECT PLAY/REPEAT CH down

Power ON. + Press (Over 5 seconds)

The unit goes into service mode.

In this mode, Mechanism movement can be confirmed. When removing Cassette Up Ass'y, it can be confirmed without a cassette.

To release from this mode, press POWER button off or disconnect AC Plug.

5.1.6. DEFEATING THE AUTO TRACKING

To defeat the Auto Tracking Function, place the instrument in the STOP mode and place a jumper between TP6003 and TP6009 on the TV/VCR Main C.B.A. The tracking will be placed in the neutral position.

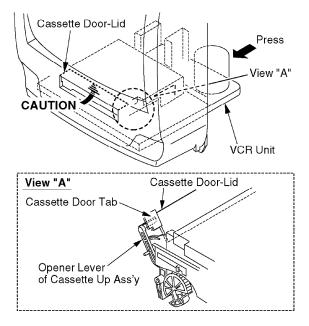
5.1.7. CAUTION FOR INSTALLATION OF VCR UNIT

CAUTION:

Opener Lever may be damaged when VCR Unit is installed, with Cassette Door-Lid and Opener Lever of Cassette Up Ass'y set incorrectly.

Install the VCR Unit as follows:

- 1. Swing the Cassette Door-Lid all the way open until the Cassette Door tab clears the Opener Lever.
- 2. Make sure that all guide tabs are aligned properly. Then, press the VCR Unit straight in.

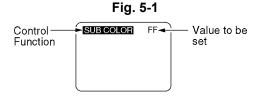


5.1.8. HOW TO INITIALIZE MEMORY IC

After the Memory IC (IC6004) or TV/VCR Main C.B.A. is replaced, be sure to set the Default value to Memory IC as shown in "Memory IC Reference Table" below.

1. Press and hold STOP, PLAY, and VOL DOWN buttons on the unit together over 5 seconds with no cassette inserted.

The adjustment overlay will appear to Enter EVR Adjustment mode.

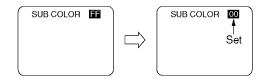


2. Set the Default value of all Control functions using a remote control as shown in "Memory IC Reference Table."

Note:

For Selecting Control functions and setting Default value, refer to "
How to enter EVR adjustment mode" and "HOW TO ENTER EVR PG
SHIFTER ADJUSTMENT MODE" in ELECTRICAL ADJUSTMENT
procedures.

Fig. 5-2



3. Press and hold STOP, PLAY, and VOL DOWN buttons on the unit together over 5 seconds again or press the POWER button OFF to release EVR Adjustment Mode.

The Default value will be written to Memory IC (IC6004).

4. Perform all EVR Adjustments. (Refer to "EVR (Electronic Variable Register) ADJUSTMENT WITH THE REMOTE CONTROL" in ELECTRICAL ADJUSTMENT procedures.)

Memory IC Reference Table

Control functions	Address	Range	Default
SUB COLOR	00	C0 - FF, 00 - 3F	00
SUB TINT	01	E0 - FF, 00 - 1F	00
SUB BRIGHT	02	C0 - FF, 00 - 3F	F0
CONTRAST	03	C1 - FF, 00	00
SUB SHARPNESS	04	E0 - FF, 00 - 1F	00
R CUT -OFF	05	00 - 7F	1E
G CUT -OFF	06	00 - FD	3C
B CUT -OFF	07	00 - FD	3C
G DRIVE	08	00 - 7F	40
B DRIVE	09	00 - 7F	40
SUB CONTRAST	0 A	00 - 0F	06
H CENTER	0B	00 - 0F	08
SUB V	0C	00 - 03	00
V SIZE	0D	00 - 7F	40
V POSITION	0E	00 - 7F	40
ANR CTL	10	00 - EF	89
PICTURE CTL	11	00 - EF	86
VV COLOR	12	C0 - FF, 00 - 3F	00
VV TINT	13	E0 - FF, 00 - 1F	00
VV SHARPNESS	14	E0 - FF, 00 - 1F	F8
PG SHIFTER	15	01 - FD	80
FM ANT	18	00 - 01	00

Note:

5.1.9. METHOD FOR LOADING/UNLOADING OF MECHANISM

5.1.9.1. (Manual Method)

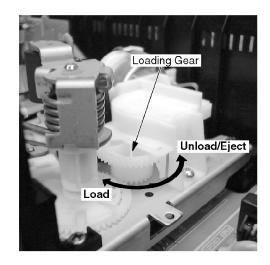
Turn the Loading Gear clockwise (for loading) or counterclockwise (for unloading) using needlenose pliers etc.

Note:

Do not use this method if Mechanism is jammed or locked.

Fig. 6-1

Address is not displayed on the TV screen.
 Other Addresses except above are not used.



5.1.9.2. (Electrical Method)

Apply +10.0 V DC Power Supply to the Loading Motor terminals.

Loading

DC + to Portion "a," DC - to Portion "b"

Unloading

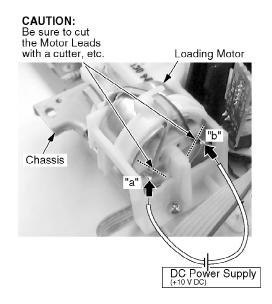
DC - to Portion "a," DC + to Portion "b"

CAUTION:

Before applying DC Power Supply, be sure to cut the Motor Leads with a cutter, etc.

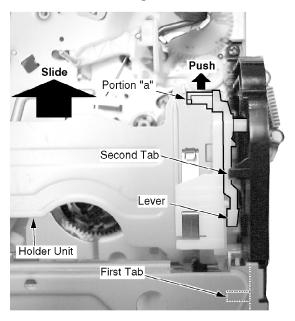
Otherwise, the Loading Motor Drive IC (IC2501) may be damaged. When reconnecting the Motor Leads, solder at below $\,/\,320\,^{\circ}\text{C}$ for less than 3 seconds.

Fig. 6-2



When loading without a cassette, push Portion "a" on the Holder Unit of Cassette Up Ass'y so that the Lever clear the First Tab and Second Tab.

Fig. 6-3



5.1.10. HOW TO REMOVE A JAMMED TAPE

CAUTION:

Wiper Arm Unit may be damaged or its spring may be out of place when the jammed tape is removed by force.

Remove a jammed tape as follows:

5.1.10.1. Manual Method

When a tape jam is encountered, check the tape loading condition and use the following procedure to remove a tape jam.

Fig. 7-1

Yes Pinch Roller is up against Capstan Rotor Unit shaft

Loading Gear can be rotated

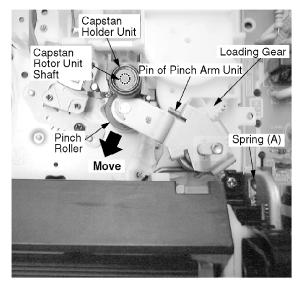
Yes No

Method 2 Method 1 Method 3

5.1.10.1.1. Method -1:

1. Move the Pinch Roller Unit out by unhooking the Pin of Pinch Arm Unit so that the Pinch Roller is separated from the Capstan Rotor Unit shaft.

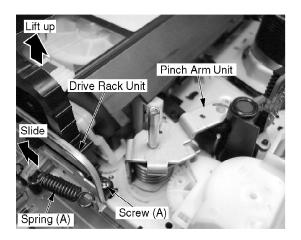
Fig. 7-2



Top View

- 2. Remove the tape from the tape path.
- 3. Rewind the tape into the cassette by rotating the Center Clutch Unit counterclockwise.
- 4. Unhook Spring (A) of the Drive Rack Arm.
- 5. Remove Screw (A).
- 6. Lift the Cassette Up Ass'y. While pulling the Cassette Up Ass'y out far enough so that it clears the Drive Rack Arm, slide the Drive Rack Unit as indicated by the arrow to remove the cassette tape from the Cassette Up Ass'y.
- 7. Check the cause of mechanical trouble and repair.

Fig. 7-3



5.1.10.1.2. Method -2:

- 1. Rotate Loading Motor counterclockwise with needlenose pliers, etc. so that the Pinch Roller is separated from the shaft of the Capstan Rotor Unit.
- 2. Perform Step 2 through Step 7 of Method -1.

5.1.10.1.3. Method -3:

1. Perform Step 2 through Step 7 of Method -1.

Note:

After repairing mechanical trouble, make sure that all gear alignments are correct, especially the Wiper Arm Unit and Drive Rack Unit of Cassette Up Ass'y. (Refer to "EJECT Position Confirmation" in DISASSEMBLY/ASSEMBLY PROCEDURES.)

5.1.10.2. Electrical Method

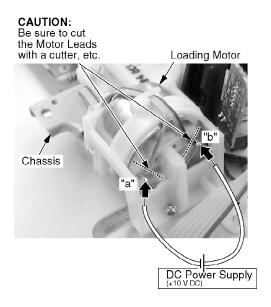
Electrical method can only be performed when the mechanism is moved by rotating the Loading Gear.

CAUTION:

- 1. Before applying DC Power Supply, be sure to cut the Motor Leads with a cutter, etc.
 - Otherwise, the Loading Motor Drive IC (IC2501) may be damaged. When reconnecting the Motor Leads, solder at below / 320 °C for less than 3 seconds.
- 2. If loading does not start in approx. 2 seconds after DC Power Supply is applied, DO NOT continue to apply DC Power Supply. Instead, perform "Manual Method."

- 1. Be sure to cut the Motor Leads with a cutter, etc.
- 2. Apply +10.0 V DC Power Supply to the Loading Motor terminals.
- 3. When the Loading Posts reach the fully unloaded position, remove the Power Supply.

Fig. 8



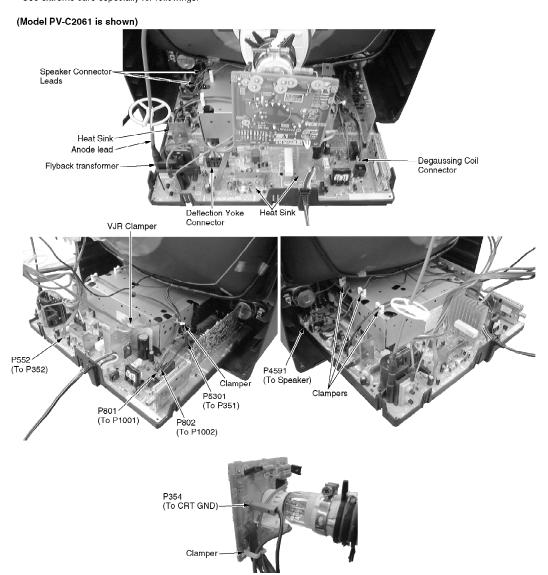
- 4. Rewind the tape into the cassette by turning the Center Clutch Unit counterclockwise.
- 5. Eject the cassette by applying +10.0 V DC Power Supply again.
- 5.1.11. WIRE AND LEAD POSITION DIAGRAM

Fig. 9

After servicing, make sure that all wires, leads, and clampers are placed in their original position. It is important for the best operation of the unit.

Note:

No lead wires or flat cables should touch any heating parts or the Heat Sink Plate. Use extreme care especially for followings.



5.1.12. HOW TO SET TRACKING TO THE NEUTRAL POSITION

Ejecting the cassette tape and then reinserting it will reset the tracking to the Neutral position.

5.1.13. BLACK SCREWS ON THE CHASSIS

Black Screws are used on the Mechanism Chassis to identify screws that require adjustment.

5.1.14. HOW TO RESET ALL COMBINATION VCR MEMORY FUNCTIONS

To reset (clear) the select language, channel auto set and set clock functions to their initial power on condition (power on, no cassette inserted), hold down the PLAY and FF buttons on the unit together for more than 5 seconds.

Power will shut off.

5.1.15. HOW TO CONFIRM AUTO CLOCK SET FEATURE

- 1. Connect an RF cable from the output of one unit to the input of the test unit.
- 2. Select corresponding RF channels.
- 3. Playback a recording of P.B.S. channel including clock set data and confirm this feature.

5.1.16. VARIABLE VOLTAGE ISOLATION TRANSFORMER

An Isolation Transformer should always be used during the servicing of Combination VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect Combination VCR from being damaged by accidental shorting that may occur during servicing.

Also, when troubleshooting the above type of Power Supply Circuit, a variable isolation transformer is required in order to increase the input voltage slowly.

5.1.17. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the

"ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

5.1.18. REPLACEMENT PROCEDURE FOR LEADLESS (CHIP) COMPONENTS

The following procedures are recommended for the replacement of the leadless components used in this unit.

- 1. Preparation for replacement
 - A. Soldering Iron

Use a pencil-type soldering iron that uses less than 30 watts.

B. Solder

Eutectic Solder (Tin 63 %, Lead 37 %) is recommended.

C. Soldering time

Do not apply heat for more than 4 seconds.

D. Preheating

Leadless capacitor must be preheated before installation. - (266 $^{\circ}$ F $^{\sim}$ 302 $^{\circ}$ F)

(130 °C ~150 °C) for about 2 minutes.

Note:

A. Leadless components must not be reused after removal.

- B. Excessive mechanical stress and rubbing of the component electrode must be avoided.
- 2. Removing the leadless component
 Grasp the leadless component body with tweezers and alternately
 apply heat to both electrodes. When the solder on both electrodes is
 melted, remove the leadless component with a twisting motion.
 Note:
 - A. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
 - B. Be careful not to break the copper foil on the printed circuit board.

Fig. 10-1

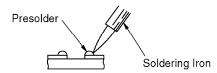
Chip

Tweezers

Soldering Iron

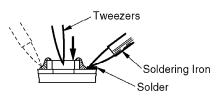
- 3. Installing the leadless component
 - A. Presolder the contact points on the circuit board.

Fig. 10-2



B. Press the part downward with tweezers and solder both electrodes as shown below.

Fig. 10-3



Note:

Do not glue the replacement leadless component to the circuit board.

5.1.19. MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	Е
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	I
PV-C2031W	J
VV-2001	K
PV-C2061	L
Not Used	Z

Note:

Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram and Circuit Board Layout Notes, for mark "Z."

5.2. IC, TRANSISTOR AND CHIP PART INFORMATION

GENERAL C.B.A. / ASS'Y PARTS



2SA1321, 2SC945A, 2SA733, 2SA1767, 2SB1221, 2SC1684, 2SC1473, 2SC1473A, 2SC2482, 2SC2482KT, 2SC2785, 2SC4015,



MN3885S, AN3846SC, CXA2064M, AN3371SB, AT24C01A10SI, LM833M, KS24C011IS,M24C01-MN6, BU4052BCF, CD4052BCM, BR24C01AFWE2, UPC4570G2-T1,



2SD601, 2SA1576A106R, 2SD601A, 2SA1037K146R, 2SC4081T106R, 2SB709A, 2SC2412K1, 2SD1819A, 2SD235800A, 2SB1218, 2SD2097TV2R

TV/VCR MAIN C.B.A.



AN5368FB, AN3479FBP-A, AN5367FB, MN101D07HCA



LA4285



CRT C.B.A.

2SC3619 2SC3271F

E_{CB} 2SC3063

AUDIO C.B.A.



AN7420-NT



XC61CC4702MR, RN5VS47CA-TR, PST3147-NR



2SB1322A



2SD2259, 2SD2458, 2SD1858



2SC4533LP.KT

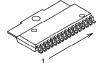


TLP621GR, ON3131-R, ON101D07HCA



L**A**7837





AN3808K



STR30130



2SD2586LBK



2SA1175, 2SC3311A



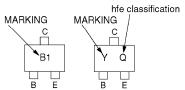
2SD2578



2SC5130

HOW TO READ THE IDENTIFICATION MARK OF CHIP COMPONENTS.

,	<u> </u>	•	
MARKING	PART NO.	MARKING	PART NO.
В	2SB709A	Υ	2SD601
В	2SB1218A	Z	2SD1819A
В	2SC4081T106R	Z	2SD601A
F	2SA1037K146R	B1	2SC2412K1
F	2SA1576A106		



2SD601

2SC2412K1

HOW TO READ THE VALUES OF THE CYLINDRICAL TYPE CHIP COMPONENTS.



The widest color band must be read first for value.

1. RESISTOR

There are two types (ERD10LLJ... and ERD10TLJ...) of chip parts.

1) ERD10LLJ: Refer to above type.

2) ERD10TL: The narrow color band must be read first for value.

If this part is included in the parts list, be sure that the color band is read properly when servicing.

2. CAPACITOR

Because of the width of the color bands, the reading direction cannot be specified. However, the color band can be read on either side. Be sure to confirm the value using the schematic diagram.

CAUTION:

Once chip parts are removed, they must not be reused. Always use a new part when installing a chip part.

6. DISASSEMBLY/ASSEMBLY PROCEDURES

6.1. CABINET SECTION

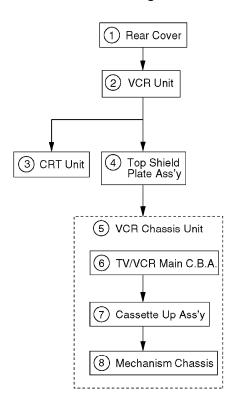
6.1.1. Disassembly Flowchart

Perform all disassembly procedures in the order described in the "Disassembly Flowchart" shown below. When reassembling, use the reverse procedure.

CAUTION:

Disconnect AC plug before disassembly.

Fig. D1



6.1.2. Disassembly Method

STEP /LOC. No.	PART	Fig. No.	REMOVE	Note
1	Rear Cover [6(S-1)	
2	2) VCR Unit		Anode Cap, P354, CRT C.B.A., Deflection Yoke Connector, Degaussing Coil Connector, Clampers, P4591, 2 Tabs, 2 Guide Tabs	1
3	CRT Unit		4(S-2)	2
4	Top Shield Plate Ass'y		4(S-3), (S-4), (S-5), Grounding Wire	
(5)	VCR Chassis Unit	D5	(S-6), 2(S-7), 2(S-8), 6(L-1), Grounding Plate	3
6	TV/VCR Main C.B.A.	D5	P3001, P6202, P6201, P4001	4
7	Cassette Up Ass'y	D5	2(S-9), (S-10), (P-1), (L-2)	5
8	Mechanism Chassis	D5		
Å	∱ B	C	† D	† E

How to read chart shown above:

A:Order of Procedure steps.

When reassembling, perform steps(s) in reverse order.

These numbers are also used as the identification (location) No. of parts in Figures.

B: Part to be removed or installed.

C: Fig. No. showing Procedure or Part Location.

D: Identification of part to be removed, unhooked, unlocked, released, unplugged or unsoldered.

6(S-1) = 6 Screws (S-1), 6(L-1) = 6 Locking Tabs (L-1),

(P-1) = Spring (P-1)

E: Refer to "Notes in chart."

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

Fig. D2

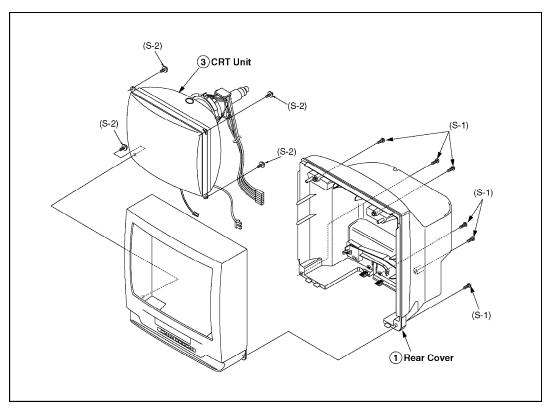


Fig. D3

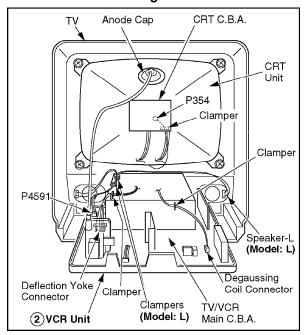


Fig. D4

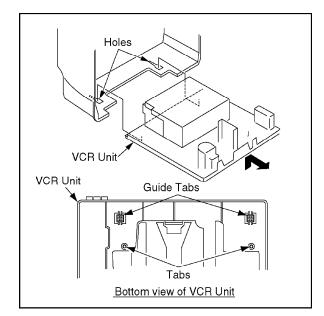
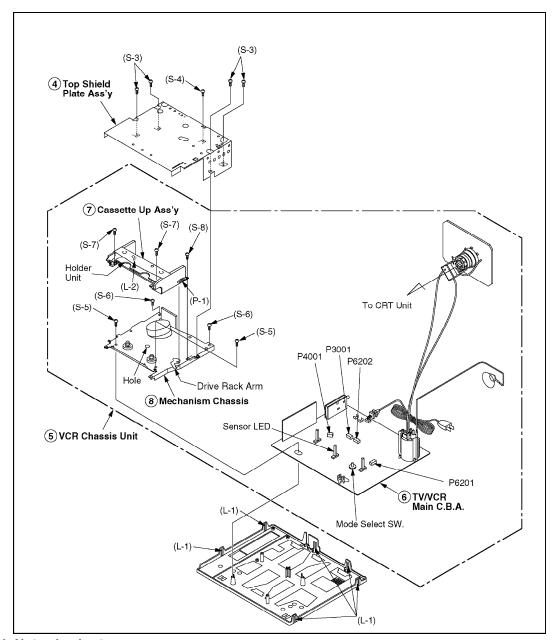


Fig. D5



6.1.2.1. Notes in chart

1. Installation of VCR Unit

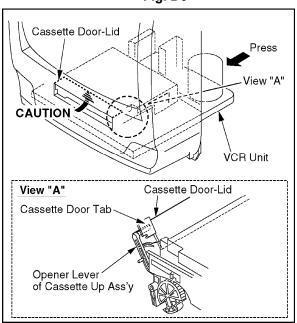
CAUTION:

Opener Lever may be damaged when VCR Unit is installed, with Cassette Door-Lid and Opener Lever of Cassette Up Ass'y set incorrectly.

A. When installing the VCR Unit, swing the Cassette Door-Lid all the way open until the Cassette Door tab clears the Opener Lever.

B. Make sure that all guide tabs are aligned properly. Then, press the VCR Unit straight in.

Fig. D6



2. Removal of CRT Unit

Place the Unit face down on a soft cloth before removing the CRT Unit.

3. Installation of VCR Chassis Unit

When installing 2 Screws (S-5), slide the Holder Unit of the Cassette Up Ass'y (Refer to "METHOD FOR LOADING/UNLOADING OF MECHANISM" in Service Notes) to tighten screws. Then, slide it back to the EJECT Position.

Make sure that Mechanism and Cassette Up Ass'y are in the EJECT Position. (Refer to "EJECT Position Confirmation" in DISASSEMBLY/ ASSEMBLY PROCEDURES.)

4. Removal of TV/VCR Main C.B.A.

Work carefully so as not to break Sensor LED when lifting the Mechanism Chassis and Cassette Up Ass'y.

Installation of Mechanism Chassis and Cassette Up Ass'y onto TV/VCR Main C.B.A.

A. Make sure the Mode Select SW, on the TV/VCR Main C.B.A. is in

- EJECT position. If not, rotate the Mode Select SW. until the alignment projection is in the EJECT Position.
- B. Make sure the Mechanism and Cassette Up Ass'y are in the EJECT Position. (Refer to "EJECT Position Confirmation" in DISASSEMBLY/ASSEMBLY PROCEDURES.)

Fig. D7

Mode Select SW. EJECT Position

Rotate

Alignment Projection

- C. Install the Mechanism Chassis and Cassette Up Ass'y straight onto the TV/VCR Main C.B.A. so that the Sensor LED clears the hole in the Mechanism Chassis and that 4 Connectors (P6201, P6202, P3001, and P4001) are aligned and seated securely.
- 5. Installation of Cassette Up Ass'y
 - A. Confirm that the Locking Tab (L-2) under the Cassette Up Ass'y is in Hole on the Mechanism Chassis when installing the Cassette Up Ass'y. Then, slide the Cassette Up Ass'y towards the back.
 - B. When installing 2 Screws (S-7), slide the Holder Unit (Refer to "

 METHOD FOR LOADING/UNLOADING OF MECHANISM" in Service

 Notes) to tighten screws. Then, slide it back to the EJECT Position.
 - C. Hook Spring (P-1) to the Drive Rack Arm on the Mechanism Chassis.

6.2. MECHANISM SECTION

6.2.1. Disassembly/Reassembly Method

This procedure starts with the condition that the cabinet parts and TV/VCR Main C.B.A. have been removed. When reassembling, perform the step(s) in the reverse order.

Perform all disassembly/reassembly and alignments procedures in EJECT Position.

Step/Loc. No.	Prior Step(s)	Part	Fig. No.	Remove	Alignment/Adjustment
1		Grounding Plate Unit	J2-1	(S-1)	Adjustment
2		Full Erase Head	J2-1	(L-1)	
3	1	Cylinder Unit	J2-1	P4092, Unsolder, 2(S-2), 3(S-3), Head Amp C.B.A.	TAPE INTERCHANGEABILITY Adjustment
4		Capstan Belt	J3-1	•	
(5)		Support Angle	J3-1	(S-4), (S-5)	
6	5	Intermediate Gear B	J3-1	(L-2)	Gear Alignment
7	4,5,6	Main Cam Gear	J3-1	Main Cam Push Nut	Gear Alignment
8	4	Center Clutch Unit	J4-1	(W-1)	
9	4,8	Changing Gear Spring	J4-1	-	
10	4,8,9	Changing Gear	J4-1	-	
11	4,8,9,10	Idler Arm Unit	J4-1	-	
12		Reel Gear	J5-1	2(L-3)	
13	4,5,6,7,8,9,10	Main Rod	J5-1	(W-2), (L-4)	Gear Alignment
14)		Stopper Angle	J6-1	(S-6)	
15	4,5,14	Capstan Rotor Unit	J6-1	-	
16	4,5,14,15	Oil Seal	J6-1	-	
11)	4,5,14,15	Capstan Stator C.B.A.	J6-1	P2503, 2(S-7)	
18		MR Head	J6-1	(S-8), Unsolder	MR HEAD GAP Adjustment
(19)	4,8,9,10,13	T Loading Arm Unit	J7-1	-	Gear Alignment
@	4,5,6,7,8,9,10,13,19	S Loading Arm Unit	J7-1	-	Gear Alignment
21)		T Brake Unit	J8-1	-	
2		Tension Control Arm Unit	J8-1	3(L-5)	
23	21	T Reel Table	J8-1	-	
24)	22	S Reel Table	J8-1	-	
23	22	Tension Arm Unit	J8-1	2(L-6), (P-1), (P-2)	
26	22,25	Loading Post Base-T Unit	J9	-	P2 AND P3 POST HEIGHT,
2	22,25	Loading Post Base-S Unit	J9	-	TAPE INTERCHANGEABILITY Adjustment
28		Opener Piece	J10-1	2(L-7)	
29	4,5,6,7	Drive Rack Arm	J10-1	-	
30	28	Pinch Arm Unit	J10-1	-	
(31)	28,30	P5 Arm Unit	J10-1	-	
(32)	5,6,28	Intermediate Gear A	J10-1	-	Gear Alignment
33	38	Motor Block Unit	J11-1	2(S-9)	
34)		Audio Control Head Unit	J11	(S-10)	TAPE INTERCHANGEABILITY Adjustment
(35)	5,6,28,30,32,33	Lift Gear	J11	-	
36	4,5,14,15,33	Capstan Holder Unit	J11	3(S-11)	
37)	22,25	Tension Arm Boss	J11	(L-8)	
(38)		Cleaner Arm Unit (Model: H)	J11	(L-9)	_
A	*	†	†	<u></u>	†
À	Ė	Ċ	Ď	Ė	Ė

How to read chart shown above:

A: Order of Procedure steps.
When reassembling, perform steps(s) in reverse order.
These numbers are also used as the identification (location) No. of parts in Figures.

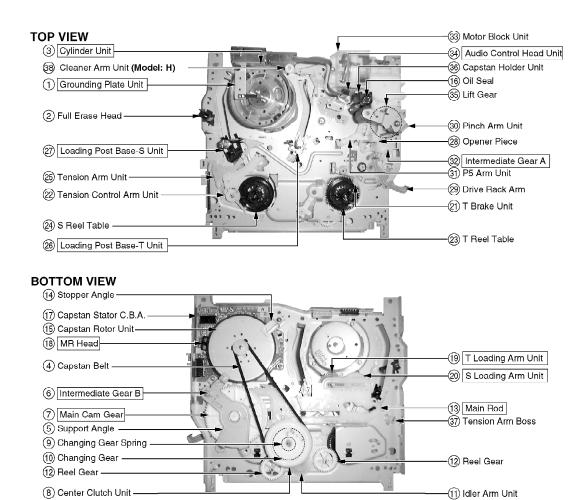
B: Steps to be completed prior to the current step.
C: Part to be removed or installed.

- C: Part to be removed or installed.
 D: Fig. No. showing Procedure or Part Location.
 E: Identification of part to be removed, unhooked, unlocked, released, unplugged or unsoldered. (S-1) = Screw (S-1), (L-1) = Locking Tab (L-1), (W-1) = Washer (W-1), (P-1) = Spring (P-1), (C-1) = Cut Washer (C-1)
 F: Alignment/Adjustment which is required when installing or replacing each Parts.

6.2.2. Inner Parts Location

Note: BOX indicates alignment (Gear Alignment or Mechanical Adjustment) required when a part is replaced.

Fig. J1-1



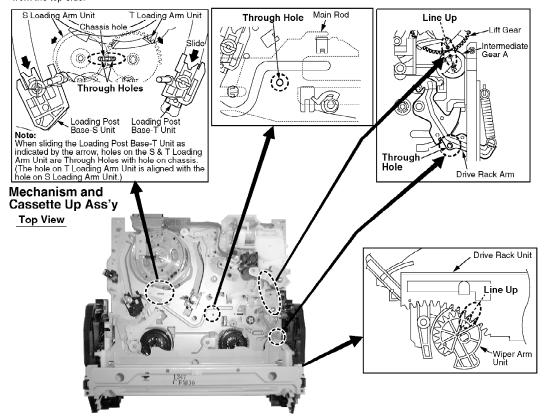
COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

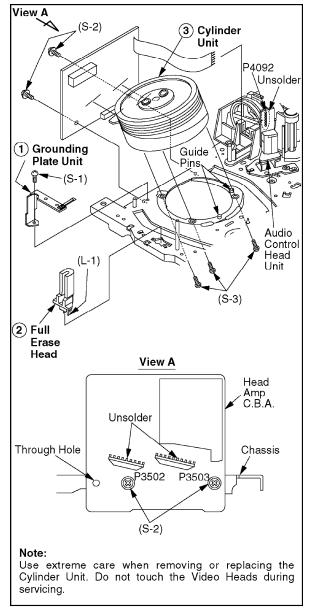
6.2.3. EJECT Position Confirmation

Fig. J1-2

Check the following alignment points to confirm that the Mechanism and Cassette Up Ass'y are in the EJECT Position from the top side



6.2.4. Grounding Plate Unit, Full Erase Head, and Cylinder Unit Fig. J2-1



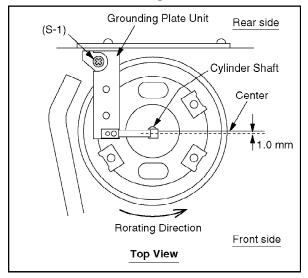
6.2.4.1. Reassembly Notes

1. Adjustment of Grounding Plate Unit

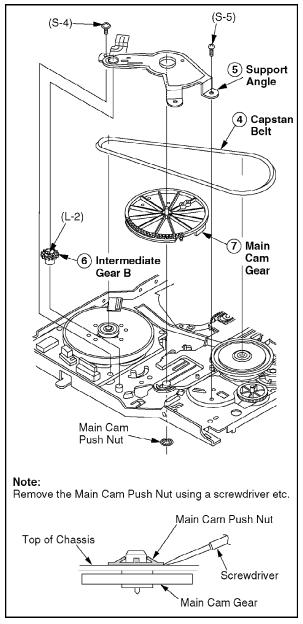
A. After installing, make sure that the Grounding Plate Unit, on the top side of mechanism chassis, is positioned on the front side of the Cylinder shaft so that the center line of the plate is just less than 1.0 mm measured from the center of the Cylinder shaft. If required, adjust the plate position by loosening Screw (S-1). Never install the Grounding Plate Unit on the rear side of the Cylinder shaft.

Incorrect positioning will cause cylinder buzz.

Fig. J2-2



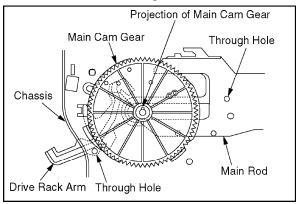
- 2. After replacing the Cylinder Unit, clear the Total elapsed "Cylinder rotation" time (in hours) to 0. Refer to "USAGE SCREEN MODE" in SERVICE NOTES.
- 6.2.5. Capstan Belt, Support Angle, Intermediate Gear B, and Main Cam Gear Fig. J3-1



6.2.5.1. Reassembly Notes

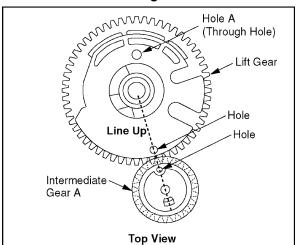
- 1. Alignment of Main Cam Gear, Drive Rack Arm, and Main Rod
 - A. Confirm that the hole on Main Rod is a Through Hole with a hole on chassis.
 - B. Confirm that the hole on Drive Rack Arm is a Through Hole with a hole on chassis.
 - C. Install the Main Cam Gear so that the projection of Main Cam Gear is in the upward position as shown.

Fig. J3-2



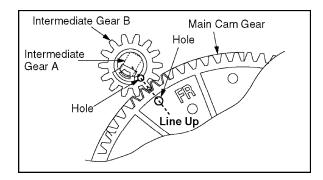
- 2. Confirmation/Alignment of Intermediate Gear B, Main Cam Gear, and Intermediate Gear A
 - A. Confirm that the Hole A on Lift Gear is a Through Hole with a hole on chassis.
 - B. Confirm that the hole on Intermediate Gear A is aligned with the hole on Lift Gear.

Fig. J3-3



C. Install the Intermediate Gear B so that the hole on the Intermediate Gear B is aligned with the hole on the Main Cam Gear.

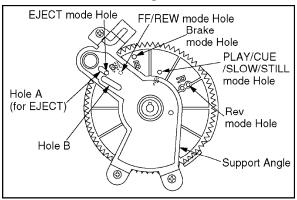
Fig. J3-4



3. Holes on Main Cam Gear

A. The EJECT mode Hole on Main Cam Gear should be a Through Hole with Hole A on Support Angle in EJECT mode. The each mode Hole on Main Cam Gear should be a Through Hole with Hole B on Support Angle in each mode.

Fig. J3-5



4. Main Cam Gear Kit

A. Main Cam Gear is supplied as a Main Cam Gear Kit only (Kit No. VVGS0009).

Main Cam Gear Kit consists of a Main Cam Gear and a Main Cam Push Nut.

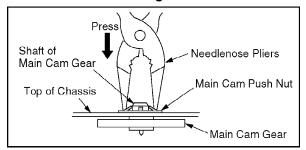
However, Main Cam Push Nut is available separately as a replacement part.

5. Installation of Main Cam Gear and Main Cam Push Nut

A. After installing the Support Angle, install the Main Cam Push Nut with Needlenose Pliers etc. so that it is flush with the chassis. There may be some slight scratches on the Shaft of Main Cam Gear, when removing the Main Cam Gear. In case that the Main

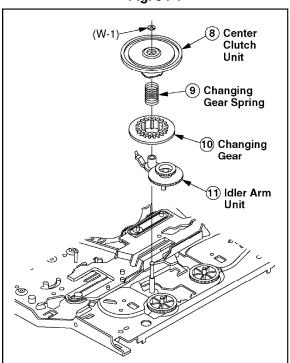
Cam Gear can be installed securely without tottering, it is fine to use the one. If any tottering, install all new parts.

Fig. J3-6



- 6. The Main Cam Push Nut is not reusable. Install a new one.
- 6.2.6. Center Clutch Unit, Changing Gear Spring, Changing Gear, and Idler Arm Unit

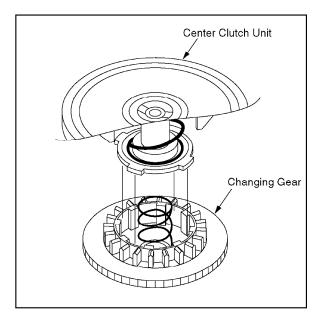
Fig. J4-1



6.2.6.1. Reassembly Notes

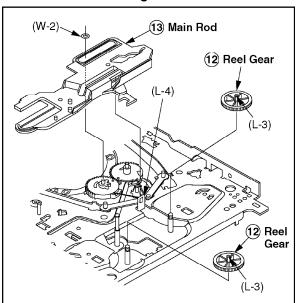
- 1. Installation of Center Clutch Unit
 - A. Fit the Center Clutch Unit into the Changing Gear.

Fig. J4-2



6.2.7. Reel Gear and Main Rod

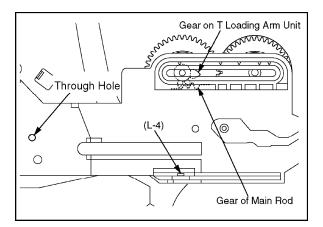
Fig. J5-1



6.2.7.1. Reassembly Notes

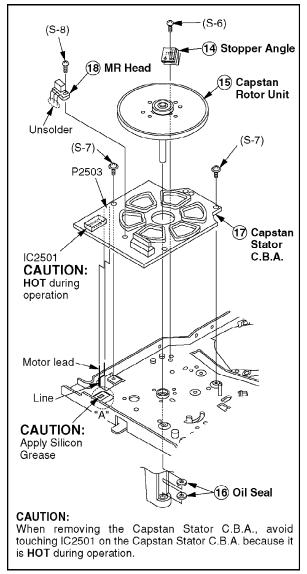
- 1. Alignment of Main Rod and T Loading Arm Unit
 - A. Align the Gear of T Loading Arm Unit with Gear of Main Rod. Confirm that the Hole on Main Rod is a Through Hole with a hole on chassis.

Fig. J5-2



6.2.8. Stopper Angle, Capstan Rotor Unit, Oil Seal, Capstan Stator C.B.A., and MR Head

Fig. J6-1

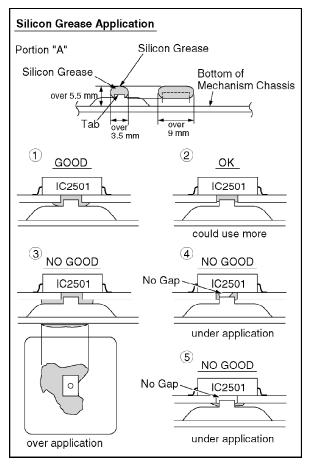


6.2.8.1. Reassembly Notes

1. Application of Silicon Grease CAUTION:

When installing the IC2501 (AN3846SC) or Capstan Stator C.B.A., be sure to apply Silicon Grease (VFK1301) as shown. Be careful not to touch other parts with greased portion to prevent grease depletion.

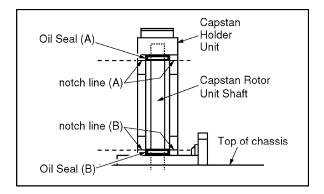
Fig. J6-2



2. Installation of Capstan Rotor Unit and Oil Seal

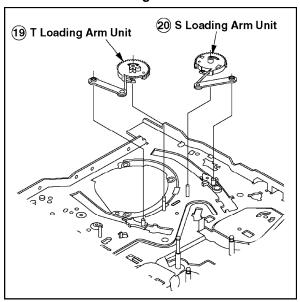
- A. Install the 2 Oil Seals into the Capstan Holder Unit. Then, insert the Capstan Rotor Unit Shaft into the hole of the Capstan Holder Unit so that shaft passes through 2 Oil Seals. Be careful not to scratch the Shaft or Capstan Holder Unit.
- B. Align the bottom of Oil Seal (A) with notch line (A). Align the top of Oil Seal (B) with notch line (B).

Fig. J6-3



6.2.9. T Loading Arm Unit and S Loading Arm Unit

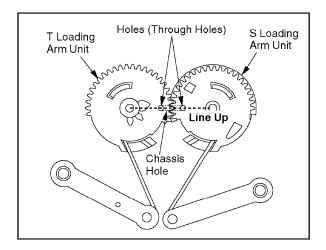
Fig. J7-1



6.2.9.1. Reassembly Notes

- 1. Alignment of T Loading Arm Unit and S Loading Arm Unit
 - A. Install the S Loading Arm Unit onto the chassis.
 - B. Install the T Loading Arm Unit so that the hole on T Loading Arm Unit is aligned with the hole on S Loading Arm Unit.
 - C. Confirm that the holes on the S & T Loading Arm Unit are Through Holes with hole on chassis.

Fig. J7-2



6.2.10. T Brake Unit, Tension Control Arm Unit, T Reel Table, S Reel Table, and Tension Arm Unit

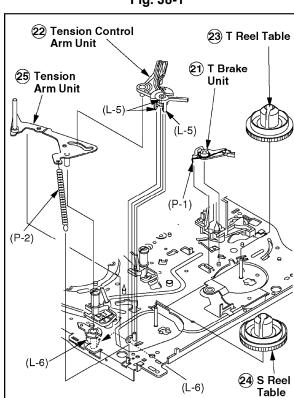
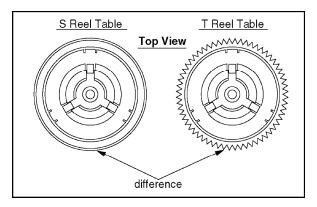


Fig. J8-1

6.2.10.1. Reassembly Notes

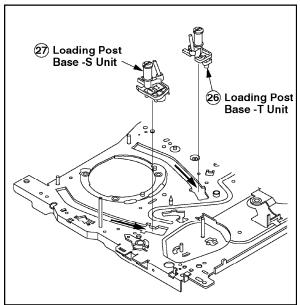
1. How to distinguish between S Reel Table and T Reel Table

Fig. J8-2



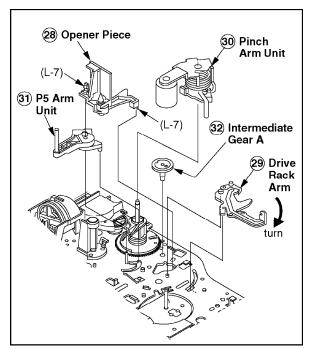
6.2.11. Loading Post Base -T Unit and Loading Post Base -S Unit





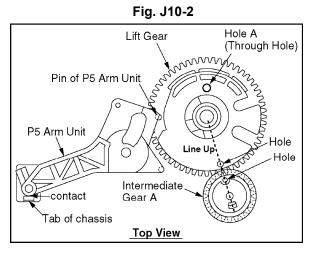
6.2.12. Opener Piece, Drive Rack Arm, Pinch Arm Unit, P5 Arm Unit, and Intermediate Gear A

Fig. J10-1



6.2.12.1. Reassembly Notes

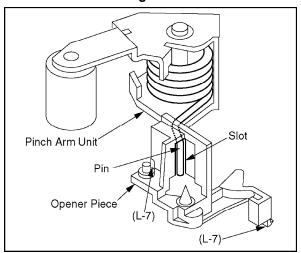
- 1. Installation/Alignment of Intermediate Gear A, Lift Gear and P5 Arm Unit
 - A. Rotate the Lift Gear so that Hole A on Lift Gear is a Through Hole with a hole on chassis.
 - B. Install the Intermediate Gear A so that the hole on Intermediate Gear A is aligned with the hole on Lift Gear.
 - C. Install the P5 Arm Unit so that it contacts with the tab of chassis.



2. Installation of Opener Piece

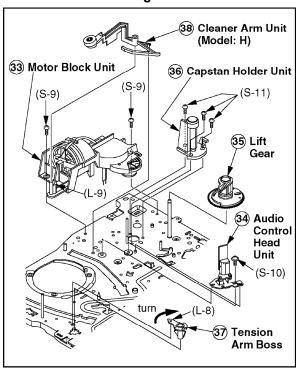
A. Install the Opener Piece so that the slot of the Opener Piece is inserted to the Pin of Pinch Arm Unit

Fig. J10-3



6.2.13. Motor Block Unit, Audio Control Head Unit, Lift Gear, Capstan Holder Unit, Tension Arm Boss, and Cleaner Arm Unit

Fig. J11



COMPARISON CHART OF MODELS & MARKS

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6.3. CASSETTE UP ASS'Y SECTION

This chart indicates Step/Location No. of Parts to be serviced and prior steps to gain access items to be serviced when disassembling. When reassembling, perform the step(s) in the reverse order.

		0.1			
Step/Loc. No.	Prior Step(s)	Part	Fig. No.	Remove	Alignment/Adjustment
1		Top Plate	K1-1	(L-1), (L-2)	
2	1	Wiper Arm Unit	K1-1	2(L-3)	Gear Alignment
3	1,2	Holder Unit	K1-1	-	
(4)		Opener Lever	K2	2(L-4)	
(5)	1,2,3,4	Drive Rack Unit	K2	-	
*	A	<u> </u>	†	†	†
À	Ė	Ċ	Ď	É	Ė

How to read chart shown above:

A: Order of Procedure steps.

When reassembling, perform steps(s) in reverse order.

These numbers are also used as the identification (location) No. of parts in Figures.

B: Steps to be completed prior to the current step.

C: Part to be removed or installed.

D: Fig. No. showing Procedure or Part Location.

E: Identification of part to be removed, unhooked, unlocked, released, unplugged or unsoldered.

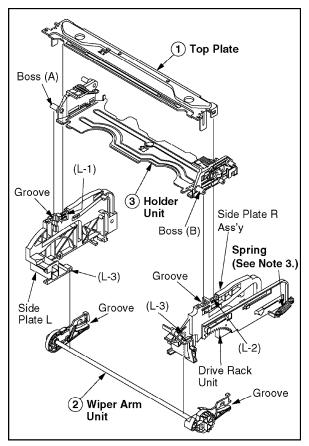
(S-1) = Screw (S-1), (L-1) = Locking Tab (L-1), (W-1) = Washer (W-1), (P-

1) = Spring (P-1), (C-1) = Cut Washer (C-1)

F: Alignment/Adjustment which is required when installing or replacing each Parts.

6.3.1. Top Plate, Wiper Arm Unit, and Holder Unit

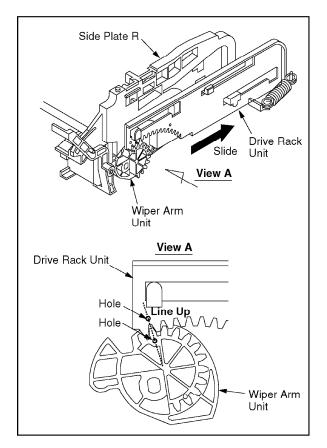
Fig. K1-1



6.3.1.1. Reassembly Notes

- 1. Alignment of Wiper Arm Unit and Drive Rack Unit
 - A. Slide the Drive Rack Unit to the far right as indicated by the arrow.
 - B. Install the Wiper Arm Unit so that the hole on the Wiper Arm Unit is aligned with the hole on the Drive Rack Unit.

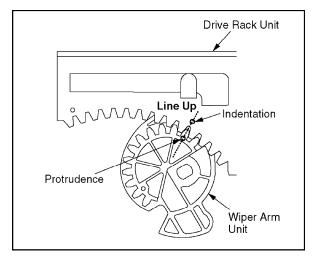
Fig. K1-2



2. Installation of Holder Unit

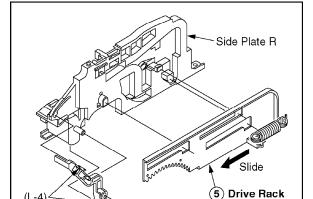
- A. Turn the Wiper Arm Unit so that the grooves on each end are aligned with the each groove on Side Plate L and R.
- B. Insert Holder Unit boss (A) and (B) into the grooves as shown in Fig. K1-1.
- C. Finally, in the EJECT Position, confirm that the protrudence on the Wiper Arm Unit is aligned with the indentation on the Drive Rack Unit.

Fig. K1-3



3. Make sure to hook the spring to the Drive Rack Arm of Mechanism chassis.

6.3.2. Opener Lever and Drive Rack Unit



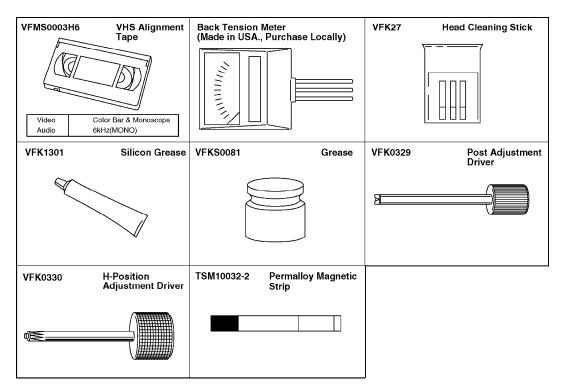
4 Opener Lever

Unit

Fig. K2

7. ADJUSTMENT PROCEDURES

7.1. SERVICE FIXTURES AND TOOLS

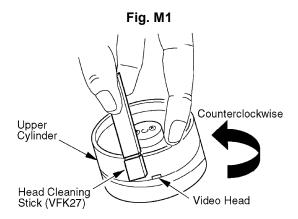


7.2. MECHANICAL ADJUSTMENT

7.2.1. CLEANING PROCEDURE FOR THE UPPER CYLINDER UNIT

1. While slowly turning the Upper Cylinder Unit counterclockwise by hand, gently rub the Video Heads with a Head Cleaning Stick (VFK27) moistened with Ethanol.

When using a Cleaning Cassette, make sure to use "DRY" type only and be aware that excessive use can shorten head life.



Note:

1. Do not rub vertically or apply excess pressure to the Video Heads.

Do not turn the Upper Cylinder Unit clockwise while cleaning.

2. After cleaning, use a Dry Head Cleaning Stick (VFK27) to remove any Ethanol remaining on the cylinder tape path. Otherwise, tape damage will occur.

7.2.2. ADJUSTMENT PROCEDURES

7.2.2.1. BACK TENSION CONFIRMATION

Purpose:

To fine adjust the Back Tension so that the tape runs smoothly with a constant tension.

Symptom of Misadjustment:

- 1) If the tape tension is less than the specified value, the tape cannot come into proper contact with the Video Heads, resulting in poor picture playback.
- 2) If the tape tension is too high, the tape will soon be damaged.

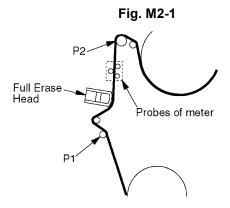
Equipment Required:

Back Tension Meter (Made in U.S.A., Purchase Locally) VHS Cassette Tape (120-Minute Tape)

Specification:

20 gf±2.5 gf (0.196 N±0.025 N)

- 1. Play back a T120 cassette tape from the beginning for approx. 10 to 20 seconds to stabilize tape movement.
- 2. Insert a Tension Meter into tape path and measure the back tension.



3. If the reading is out of specification, make sure that there is no dust or foreign material between the Brake Pad of Tension Control Arm Unit and the S Reel Table.

After cleaning, the reading of tension measurement is still out of specification, replace the Tension Arm Unit and the Tension Control Arm Unit.

Tension Arm Unit

S Reel Table

Tension Control Arm Unit

Brake Pad

Fig. M2-2

Note:

- 1. Be sure that the three probes of the meter are all in solid contact with the tape, but not touching any other parts of the mechanism.
- 2. It is recommended that measurements should be repeated at least three (3) times because the tension meter is very sensitive to external vibrations.

7.2.2.2. MR HEAD GAP ADJUSTMENT

Purpose:

To properly pick up the FG Signal.

Symptom of Misadjustment:

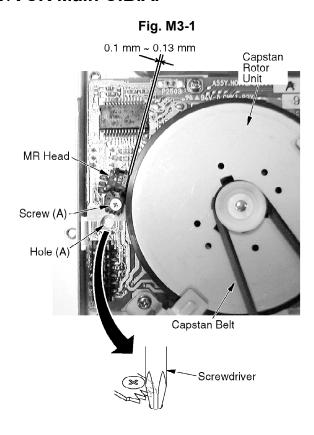
If the FG Signal is not properly picked up, Servo Operation cannot be achieved.

Equipment Required:

Oscilloscope

Specification:

- 0.1 mm ~ 0.13 mm
- 1. Remove the VCR Chassis Unit and then place it upside down.
- 2. Remove the TV/VCR Main C.B.A.
- 3. Slightly loosen Screw (A). Then set the Screwdriver (Phillips Driver) into the Hole (A). Turn the screwdriver clockwise until the MR Head touches the rotor. Then turn it slightly counterclockwise to make the clearance as specified.
- 4. Tighten Screw (A).
- 5. Reinstall the TV/VCR Main C.B.A.



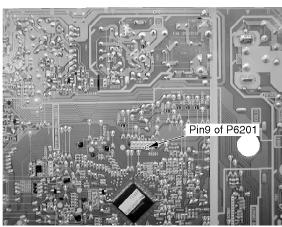
Note:

Do not touch the outside circumference of the rotor surface with any tool and keep magnetic material away from the rotor magnet (especially metal particles).

Confirmation of Signal Level

- 1. Place the unit in Service Position (2). Refer to "SERVICE POSITION" in SERVICE NOTES.
- 2. Supply a Video Signal to the video input jack.
- 3. Insert a cassette tape and place the unit in SLP recording mode.
- 4. Connect the oscilloscope to Pin 9 of P6201 on the TV/VCR Main C.B.A. Confirm that the signal level is greater than 20 mV [P-P].





TV/VCR Main C.B.A. (foil side)

7.2.2.3. TAPE INTERCHANGEABILITY ADJUSTMENT

Note:

To perform these adjustment/confirmation procedures, set the tracking to the neutral position.

Equipment Required:

Dual Trace Oscilloscope

VHS Alignment Tape (VFMS0003H6)

Post Adjustment Driver (VFK0329)

H-Position Adjustment Driver (VFK0330)

7.2.2.3.1. ENVELOPE OUTPUT ADJUSTMENT

The height of the P2 and P3 Posts replacement part is preadjust at the factory.

Purpose:

To achieve a satisfactory picture and secure precise tracking.

Symptom of Misadjustment:

If the envelope is output poorly, much noise will appear in the

picture. Then the tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control circuit.

Equipment Required:

Post Adjustment Driver (VFK0329)

- 1. Place a jumper between TP6003 and +5V(TP6009) on the TV/VCR Main C.B.A. to defeat Auto Tracking.
- 2. Eject the tape and insert it again to access the Neutral Tracking position.
- 3. Play back the alignment tape.
- 4. Connect the oscilloscope to TP3002 on the Video Signal Process Section of the TV/VCR Main C.B.A. Use TP6205 as a trigger.
- 5. Confirm that the RF envelope is flat enough (V1/V-max. is 0.7 or more). If not, with Post Adjustment Driver, adjust P2 and P3 post height so that the envelope waveform becomes as flat (V1/V-max. is 0.7 or more) as possible (No envelope drop). If the envelope drop appears on the left-half of the waveform, adjust P2 post height. If the envelope drop appears on the right-half of the waveform, adjust P3 post height.

CAUTION:

Overtightening P2 and P3 posts may cause the threads to strip. Note:

It will be possible to confirm Step 5 according to following steps.

1. Press the Tracking Control Up or Down button on remote control.

Make sure that the envelope waveform remains flat. If not, readjust P2 and/or P3 post heights.

Fig. M4-1

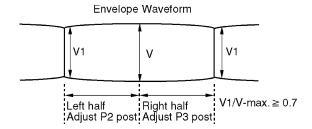
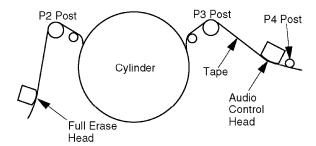
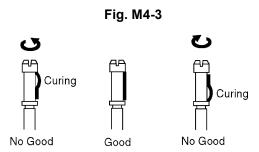


Fig. M4-2



6. After adjustment, confirm that the tape travels without curling at P2 and P3 posts.



7. Remove the jumper after completing the adjustment procedure.

7.2.2.3.2. AUDIO CONTROL HEAD TILT ADJUSTMENT

Purpose:

To confirm that the tape runs smoothly. In particular, confirm that the tape properly picks up the Audio Signal at the upper part of the head and the Control Signal at the lower part of the head.

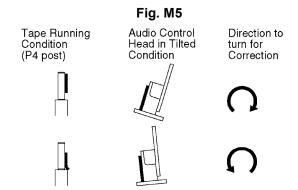
Symptom of Misadjustment:

If the tilt of the Audio Control Head is poorly adjusted, the tape will eventually be damaged. An intermittent Blue screen may be seen in Playback.

1. Play back a T120 cassette tape and check that the tape travels

smoothly between the upper and lower guides of the P4 post.

2. If necessary, adjust Black Screw (B) clockwise until the tape begins to curl at the lower edge of the P4 post. Then adjust the screw counterclockwise until the curling is eliminated.



7.2.2.3.3. AUDIO CONTROL HEAD HEIGHT ADJUSTMENT

The height of the Audio Control Head replacement part is preset at the factory.

Purpose:

To be sure the tape runs properly along the Control Head.

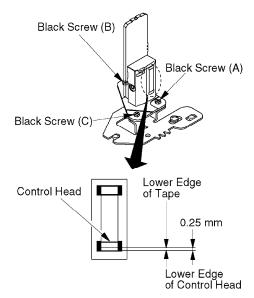
Symptom of Misadjustment:

If the control signal is not properly picked up, Servo Operation cannot be achieved. A Blue screen will be seen in Playback.

This confirmation is required when the Audio Control Head is replaced.

- 1. Play back a T120 cassette tape and check that the lower edge of the tape runs approximately 0.25 mm above the lower edge of the Audio Control Head.
- 2. If necessary, adjust Black Screws (A) and (B) clockwise to lower the tape or counterclockwise to raise.

Fig. M6



7.2.2.3.4. AUDIO CONTROL HEAD AZIMUTH ADJUSTMENT

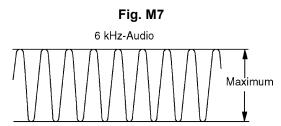
Purpose:

To adjust the position and height of the Audio Control Head so that it meets the tape tracks properly.

Symptom of Misadjustment:

If the position of the Audio Control Head is not properly adjusted, the Audio S/N Ratio is poor.

- 1. Connect the oscilloscope to the TP4002 on the TV/VCR Main C.B.A.
- 2. Play back the 6 kHz Monaural Audio portion of the alignment tape.
- 3. Adjust Black Screw (C) on the Audio Control Head base so that the output level is at maximum.



- 4. Confirm the height of the Audio Control Head is proper. If not, readjust Black Screws (A) and (B).
- 7.2.2.3.5. AUDIO CONTROL HEAD HORIZONTAL POSITION ADJUSTMENT

Purpose:

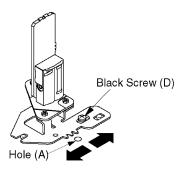
To adjust the Horizontal Position of the Audio Control Head.

Symptom of Misadjustment:

If the Horizontal Position of the Audio Control Head is not properly adjusted, a maximum envelope cannot be obtained at the Neutral Position of the Tracking Control Circuit.

- 1. Place a jumper between TP6003 and +5V(TP6009) on the TV/VCR Main C.B.A. to defeat Auto Tracking.
- 2. Eject the tape and insert it again to access the Neutral Tracking position.
- 3. Play back the alignment tape.
- 4. Connect the oscilloscope to TP3002 on the Video Signal Process Section of the TV/VCR Main C.B.A. Use TP6205 as a trigger.
- 5. Loosen the Black Screw (D) and tighten it slightly. Set the H-Position Adjustment Driver into the Hole (A). Then slowly turn the fixture either clockwise or counterclockwise so that the envelope is at maximum.

Fig. M8



- 6. Tighten Black Screw (D).
- 7. Remove the jumper between TP6003 and +5V(TP6009).

Note:

Old type of H-Position Adjustment Driver (VFK0136) can be used for this adjustment.

7.3. ELECTRICAL ADJUSTMENT

7.3.1. TEST EQUIPMENT

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range: 0.001 V to 50 V/Div. Frequency Range: DC to 50 MHz

Probes: 10:1, 1:1

2. NTSC Video Pattern Generator

3. DVM (Digital Volt Meter)

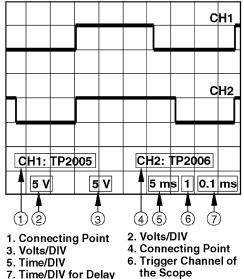
4. MTS/SAP Signal Generator (TV Multi-Channel Sound Modulator (U.S.A.))

5. Frequency Counter Frequency Range: 0 to 150 MHz

- 6. Plastic Tip Driver and Non-Metal Driver
- 7. Isolation Transformer (Variable)
- 8. VHS Alignment Tape (VFMS0003H6)
- 9. Degaussing Coil
- 10. White Pattern Generator
- 11. Audio Generator

7.3.2. HOW TO READ THE ADJUSTMENT PROCEDURES

Fig.E1



- 1 : CH1
- 2: CH2

7.3.3. STEREO/SAP SEPARATION ADJUSTMENT (FOR MODEL WITH TV STEREO/Hi-Fi AUDIO)

Purpose:

To separate the L and R Channels of Stereo Signal.

Symptom of Misadjustment:

The L and R Channels of Stereo Signal will not be separated properly resulting in no stereophonic effect.

Test Point:

TP9001 (Audio C.B.A.)

Adjustment:

R9001, R9008 (Audio C.B.A.)

Specification:

minimum level

INPUT:

Antenna Input Terminal MTS (ONLY L CH) 300 Hz±5 Hz, 3 kHz±5 Hz 14 % or 7 % Modulating

Mode:

STEREO audio (TV)

Equipment:

Oscilloscope, MTS/SAP Signal Generator

- 1. Set to TV mode, and then set to STEREO audio.
- 2. Connect the RF OUTPUT of the MTS/SAP Signal Generator to the Antenna Input Terminal.

Then, set the MTS/SAP Signal Generator as follows.

MTS (ONLY L CH)

300 Hz±5 Hz

14 % or 7 % Modulating

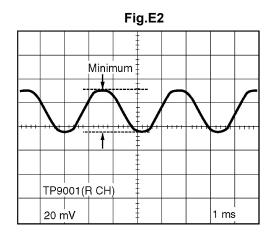
- 3. Connect the Oscilloscope to TP9001 on the Audio C.B.A.
- 4. Adjust R9001 (SEP (L)) on the Audio C.B.A. so that the signal level of TP9001 is minimum.
- 5. Set the MTS/SAP Signal Generator as follows.

MTS (ONLY L CH)

3 kHz±5 Hz

14 % or 7 % Modulating

6. Adjust R9008 (SEP (H)) on the Audio C.B.A. so that the signal level of TP9001 is minimum.



7.3.4. SEPARATION ADJUSTMENT (FOR MODEL WITH TV STEREO/Hi-Fi AUDIO)

Note:

Be sure to perform this adjustment after STEREO/SAP SEPARATION ADJUSTMENT are completed.

Purpose:

To separate the L and R Channels of Stereo Signal.

Symptom of Misadjustment:

The L and R Channels of Stereo Signal will not be separated properly resulting in no stereophonic effect.

Test Point:

TP4202 (Audio C.B.A.)

Adjustment:

R9003 (Audio C.B.A.)

Specification:

minimum level

INPUT:

Antenna Input Terminal MTS (ONLY L CH) 300 Hz±5 Hz, 3 kHz±5 Hz 14 % or 7 % Modulating

Mode:

STEREO audio (TV)

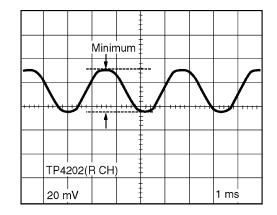
Equipment:

Oscilloscope,

MTS/SAP Signal Generator

- 1. Connect the RF OUTPUT of the MTS/SAP Signal Generator to the Antenna Input Terminal.
- 2. Connect the Oscilloscope to TP4202 (R CH) on the Audio C.B.A.
- 3. Set to TV mode, and then set to STEREO audio.
- 4. Adjust R9003 on the Audio C.B.A. so that the signal level is minimum.

Fig.E3



7.3.5. FM VCO ADJUSTMENT (FOR MODEL WITH FM RADIO AND TV STEREO/Hi-Fi AUDIO)

Purpose:

To set VCO free run frequency.

Symptom of Misadjustment:

Even when stereophony is received, only monaural sound will be output.

Test Point:

Pin 32 of P4204, TP9201 (Audio C.B.A.)

Adjustment:

R9206 (Audio C.B.A.)

Specification:

38.0 kHz±50 Hz

INPUT:

Mode:

STEREO audio (FM Radio)

Equipment:

Frequency Counter

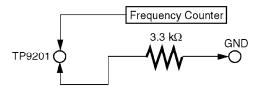
1. Connect Pin 32 of P4204 on Audio C.B.A. to GND.

Fig.E4-1



2. Connect TP9201 on Audio C.B.A. to GND through a resistor (3.3 k Ω). Then, connect Frequency Counter to TP9201.

Fig.E4-2



7.3.6. EVR (Electronic Variable Register) ADJUSTMENT WITH THE REMOTE CONTROL

This unit has electronic technology using I2C Bus concept. The following control functions are adjusted by using "On Screen Displays" and the remote control instead of adjusting mechanical controls (VR).

	% 2		
Control functions	Address	Range	Default
SUB COLOR	00	C0 - FF, 00 - 3F	00
SUB TINT	01	E0 - FF, 00 - 1F	00
SUB BRIGHT	02	C0 - FF, 00 - 3F	F0
CONTRAST	03	C1 - FF, 00	00
SUB SHARPNESS	04	E0 - FF, 00 - 1F	00
R CUT -OFF	05	00 - 7F	1E
G CUT -OFF	06	00 - FD	3C
B CUT -OFF	07	00 - FD	3C
G DRIVE	08	00 - 7F	40
B DRIVE	09	00 - 7F	40
SUB CONTRAST	0A	00 - 0F	06
H CENTER	0B	00 - 0F	80
SUB V	0C	00 - 03	00
V SIZE	0D	00 - 7F	40
V POSITION ※3	0E	00 - 7F	40
ANR CTL	10	00 - EF	89
PICTURE CTL	11	00 - EF	86
VV COLOR *1	12	C0 - FF, 00 - 3F	00
VV TINT *1	13	E0 - FF, 00 - 1F	00
VV SHARPNESS	14	E0 - FF, 00 - 1F	F8
PG SHIFTER	15	01 - FD	80
FM ANT	18	00 - 01	00

Bold-faced letters - Control functions which need to be adjusted.

- ❖ 1 After "SUB COLOR/SUB TINT ADJUSTMENT" is complete, perform as follows.
 - Write the same value of SUB COLOR (Address 00) to VV COLOR (Address 12).
 Write the same value of SUB TINT (Address 01) to
 - VV TINT (Address 13).
- 2 Address is not displayed on the TV screen. Other Addresses except above are not used.
- 3 For Model with 20 inch CRT, V POSITION are not required in EVR adjustment.

7.3.6.1. EVR ADJUSTMENT ITEM

The following Items need to be adjusted for EVR adjustment.

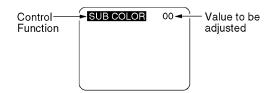
- PG SHIFTER ADJUSTMENT
- SUB CONTRAST ADJUSTMENT
- CUT OFF, DRIVE ADJUSTMENT
- SUB COLOR/SUB TINT ADJUSTMENT
- V. HEIGHT/H. POSITION ADJUSTMENT
- WHITE BALANCE ADJUSTMENT
- SUB BRIGHTNESS ADJUSTMENT

7.3.6.2. How to enter EVR adjustment mode

Press and hold STOP, PLAY, and VOL DOWN buttons on the unit together over 5 seconds with no cassette inserted.

The adjustment overlay will appear.

Fig.E5-1



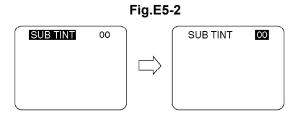
7.3.6.2.1. How to adjust:

1. Press CH UP/DOWN key on the remote control to select control function to be adjusted.

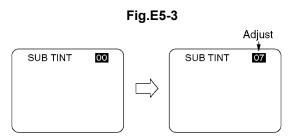
Important Note:

Make a note of the original value of the controls before modifying in case the wrong control is adjusted.

2. Press VOL UP/DOWN key on the remote control so that the shaded area moves to the value.



3. Press CH UP/DOWN key on the remote control to adjust the value of the selected control.

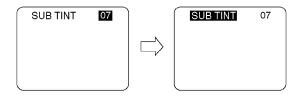


Note:

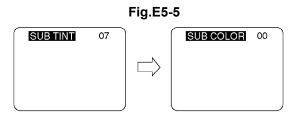
You can select a desired channel by using the numbered keys on the remote control in EVR adjustment mode.

4. Press VOL UP/DOWN key on the remote control so that the shaded area moves to the control function.

Fig.E5-4



5. Press CH UP/DOWN key on the remote control to select a control function for the next adjustment if necessary.

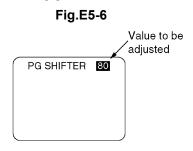


7.3.6.2.2. How to release from EVR Adjustment Mode:

Press and hold STOP, PLAY, and VOL DOWN buttons on the unit together over 5 seconds again or press the POWER button OFF. The adjusted value will be written to Memory IC (IC6004).

7.3.6.3. HOW TO ENTER EVR PG SHIFTER ADJUSTMENT MODE

- 1. Enter EVR adjustment mode.
- 2. Insert the VHS Alignment Tape and playback in SP mode. The adjustment overlay will appear.



7.3.6.3.1. How to adjust:

Press CH UP/DOWN key on the remote control to adjust the value.



7.3.6.3.2. How to release from EVR PG Shifter Adjustment Mode:

Press STOP button or press the POWER button OFF.

The adjusted value will be written to Memory IC (IC6004).

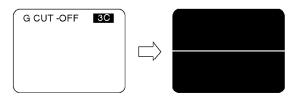
7.3.6.4. HOW TO ENTER SERVICE MODE

- 1. Enter EVR adjustment mode.
- 2. Press DISPLAY key on the remote control for collapse scan.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value for adjustments you will proceed.

Fig.E5-8



7.3.6.4.1. How to release from Service Mode: Press DISPLAY key again on the remote control.

7.3.7. PG SHIFTER ADJUSTMENT

Purpose:

Determine the Video Head Switching Point during Playback.

Symptom of Misadjustment:

May cause Head Switching Noise and/or Vertical Jitter.

Test Point:

TP3001 (TV/VCR Main C.B.A.), TP6205 (TV/VCR Main C.B.A.)

Adjustment:

PG SHIFTER (EVR)

Specification:

 $T = 6 H \pm 1 H (0.38 ms \pm 0.06 ms)$

INPUT:

Mode:

SP Playback

Equipment:

Oscilloscope,

VHS Alignment Tape (VFMS0003H6)

- 1. Enter EVR PG Shifter Adjustment mode, refer to "HOW TO ENTER EVR PG SHIFTER ADJUSTMENT MODE."
- 2. Connect the channel-1 scope probe to TP3001 and the channel-2 scope probe to TP6205. Used TP6205 as a trigger.
- 3. Adjust value so that the trailing edge of the head switching pulse is placed 6 H±1 H (0.38 ms±0.06 ms) before the start of the vertical sync pulse.
- 4. Release EVR PG Shifter Adjustment Mode.

 The adjusted value will be written to Memory IC (IC6004).

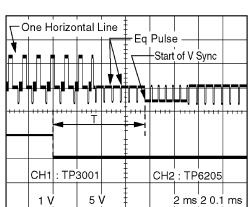


Fig.E6

7.3.8. SUB CONTRAST ADJUSTMENT

Purpose:

To set the optimum sub contrast level.

Symptom of Misadjustment:

The picture is too dark or too light.

Test Point:

Pin 5 of P6001 (TV/VCR Main C.B.A.) or TP49 (CRT C.B.A.)

Adjustment:

SUB CONTRAST (EVR)

Specification:

 $3.0 V[p-p]\pm 0.1 V[p-p]$

INPUT:

Video Input Jack, Crosshatch Pattern Signal 1 V[p-p] (75 Ω terminated)

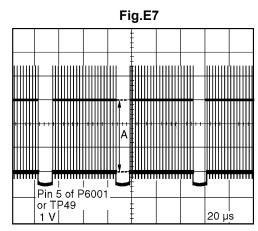
Mode:

STOP

Equipment:

Oscilloscope, NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to Pin 5 of P6001 on the TV/VCR Main C.B.A. or TP49 on the CRT C.B.A.
- 3. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the (D0).
- 4. Select SUB CONTRAST in EVR adjustment mode and adjust so that the level A is 3.0 V[p-p]±0.1 V[p-p].
- 5. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.



7.3.9. FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT

Purpose:

To set the optimum Focus and Screen.

Symptom of Misadjustment:

The picture is out of Focus and there will be an improper screen color mix.

Test Point:

TP50 (CRT C.B.A.)

Adjustment:

FOCUS CONTROL (Flyback Transformer),
SCREEN CONTROL (Flyback Transformer),
SUB BRIGHT (EVR),
B DRIVE (EVR),
R DRIVE (EVR),
B CUT -OFF (EVR),
G CUT -OFF (EVR),
R CUT -OFF (EVR)

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack,
Monoscope Pattern Signal

Mode:

STOP

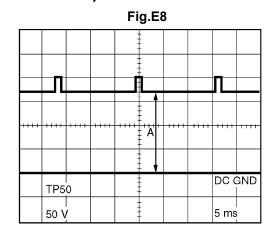
Equipment:

Oscilloscope,

NTSC Video Pattern Generator

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- 4. Adjust the FOCUS CONTROL on the Flyback Transformer so that the center of picture is the sharpest.

- 5. Turn the SCREEN CONTROL on the Flyback Transformer fully counterclockwise.
- 6. Press DISPLAY key (Service Switch) on the remote control for collapse scan. (Refer to <u>HOW TO ENTER SERVICE MODE</u>.)
- 7. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is (140 VDC±5 VDC: For model with 13 inch CRT) or (170 VDC±5 VDC: For model with 20 inch CRT).



- 8. Turn the SCREEN CONTROL on the Flyback Transformer clockwise carefully and stop at the point where any color is first observed.
- 9. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (B CUT -OFF, G CUT -OFF, or R CUT -OFF) and adjust so that the horizontal line becomes white. For example, if the horizontal line appeared red in step 8, select and adjust the B CUT -OFF and G CUT -OFF.
- 10. Press DISPLAY key on the remote control again to return for full frame scan.
- 11. Select SUB BRIGHT in EVR adjustment mode and adjust so that the picture has adequate brightness.
- 12. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.

Note:

Before pressing DISPLAY key on the remote control for collapse scan,

select the desired control function and move the shaded area to the value.

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7.3.10. SUB COLOR/SUB TINT ADJUSTMENT
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Purpose:

To set the standard color phase.

Symptom of Misadjustment:

Color phase will be shifted.

Test Point:

Pin 5 of P6001 (TV/VCR Main C.B.A.) or TP49 (CRT C.B.A.)

Adjustment:

SUB COLOR (EVR), SUB TINT (EVR)

Specification:

C = 1.40 V[p-p]±0.15 V[p-p] (For model with 13 inch CRT) C = 1.50 V[p-p]±0.15 V[p-p] (For model with 20 inch CRT)

INPUT:

Video Input Jack, Rainbow Color Bar

Mode:

STOP

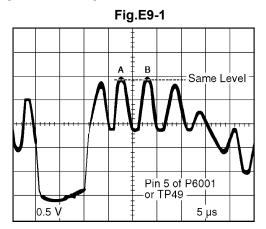
Equipment:

Oscilloscope,

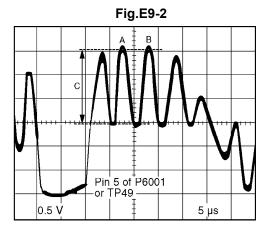
NTSC Video Pattern Generator

- 1. Supply the Rainbow Color Bar signal to Video Input Jack.
- 2. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the minimum (C0).
- 3. Connect the Oscilloscope to Pin 5 of P6001 on the TV/VCR Main C.B.A. or TP49 on the CRT C.B.A.
- 4. Select SUB TINT in EVR adjustment mode and adjust so that level A

and B should be equal in amplitude.



5. Select SUB COLOR in EVR adjustment mode and adjust so that the level C is (1.40 V[p-p]±0.15 V[p-p]: For model with 13 inch CRT) or (1.50 V[p-p]±0.15 V[p-p]: For model with 20 inch CRT).



6. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.

After "SUB COLOR/SUB TINT ADJUSTMENT" is complete, perform as follows.

- Write the same value of SUB COLOR (Address 00) to VV COLOR (Address 12).

 • Write the same value of SUB TINT (Address 01) to
- VV TINT (Address 13).

7.3.11. PURITY ADJUSTMENT

Purpose:

To set the uniform white over the whole screen.

Symptom of Misadjustment:

The white screen will vary from area to area.

Test Point:

Adjustment:

Pair of 4-Pole Convergence Magnet Rings, Pair of 6-Pole Convergence Magnet Rings, Pair of Purity Magnet Rings, Deflection Yoke (CRT Unit), G CUT -OFF (EVR)

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack, Crosshatch Pattern Signal, White Pattern Signal

Mode:

STOP

Equipment:

Degaussing Coil, NTSC Video Pattern Generator, White Pattern Generator

- 1. Remove the wedges from the CRT.
- 2. Slide the Deflection Yoke forward to the end of the CRT neck. (For model with 13 inch CRT)

Set the Convergence Yoke as specified.

- 3. Power the unit "ON" and degauss the CRT by the Degaussing Coil.
- 4. Supply the Crosshatch Pattern Signal to Video Input Jack.
- 5. Turn the pair of 4-Pole Convergence Magnet Rings so that B and R at the center of CRT overlap each other.

- 6. Turn the pair of 6-Pole Convergence Magnet Rings so that B and R which overlapped each other in Step 5 overlap G.
- 7. Supply a White Pattern Signal to Video Input Jack.
- 8. Select G CUT -OFF in EVR adjustment mode and adjust it to become to the minimum level. Turn the Pair of Purity Magnet Rings so that the distorted color areas are approximately across from each other. Slide the Deflection Yoke back slightly (without rotating it) until the distorted color areas disappear from the screen.
- 9. Supply a Crosshatch Pattern Signal to Video Input Jack again. Confirm that the Center Bar is at the horizontal center line of the CRT and the V-Center Bar is at the vertical center line of the CRT. Then, tighten the Expansion Screw.
- 10. Press DISPLAY key (Service Switch) on the remote control for collapse scan. (Refer to <u>HOW TO ENTER SERVICE MODE</u>.)
- 11. Press DISPLAY key on the remote control again to return for full frame scan. Make sure that the entire screen is white. If not, adjust G DRIVE and B DRIVE in EVR adjustment mode.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

Fig.E10-1

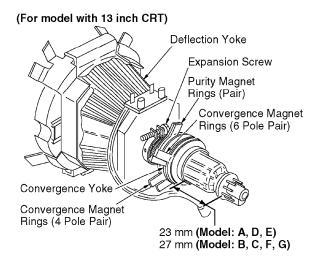
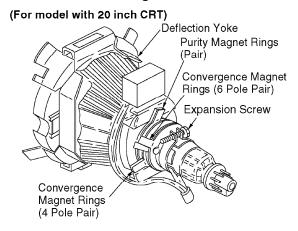


Fig.E10-2



COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	1
PV-C2031W	J
VV-2001	K
PV-C2061	L

7.3.12. STATIC CENTRAL CONVERGENCE ADJUSTMENT

Purpose:

To set the uniform convergence over the whole screen.

Symptom of Misadjustment:

The convergence on the screen will vary from the center portion to the surrounding edges.

Test Point:

Adjustment:

Pair of 4-Pole Convergence Magnet Rings, Pair of 6-Pole Convergence Magnet Rings

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack, Crosshatch Pattern Signal,

Mode:

STOP

Equipment:

NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Turn the Pair of 4 Pole Convergence Magnet Rings so that B and R, at center of CRT, overlap each other.
- 3. Turn the Pair of 6 Pole Convergence Magnet Rings so that B and R, that overlapped each other in step 2 overlaps G.

7.3.13. DYNAMIC CONVERGENCE ADJUSTMENT

Purpose:

To set the uniform convergence over the whole screen.

Symptom of Misadjustment:

The convergence on the screen will vary at the sides of the CRT.

Test Point:

Adjustment:

Deflection Yoke (CRT Unit)

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack, Crosshatch Pattern Signal, White Pattern Signal

Mode:

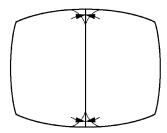
STOP

Equipment:

NTSC Video Pattern Generator White Pattern Generator

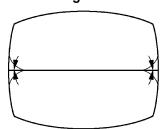
- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Hold the Deflection Yoke and wiggle it up and down to produce the correct Crosshatch Pattern position.

Fig.E11-1



3. Hold Deflection Yoke and wiggle it horizontally (right to left) to produce the correct Crosshatch Pattern position.

Fig.E11-2



4. Insert three wedges to maintain the correct Crosshatch Pattern Position.

Fig.E11-3

Wedge Positions

(For model with 13 inch CRT)

A

C

B

C

Wedges (Rear View)

(Confirmation of white)

1. Supply a White Pattern Signal to the Video Input Jack.

Wedges (Rear View)

- 2. Confirm that the purity is still correct.
- 3. If the purity is not acceptable, readjust the purity.
- 4. (For model with 20 inch CRT)

 If the convergence error is more than 1.5 mm (0.06 inch) from the green dot at each corner, adjust the convergence at that corner with a Permalloy Magnetic Strip. Insert a permalloy strip into the gap between the Deflection Yoke and the CRT along a diagonal line of the CRT bell. Adjust it for the best possible convergence. Use one Permalloy Magnetic Strip in each corner if necessary.

Permalloy Magnetic Strip Part Number (TSM10032-2).

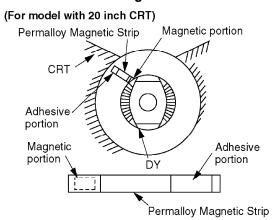


Fig.E11-4

7.3.14. V. HEIGHT/H. POSITION ADJUSTMENT

Purpose:

To set the standard vertical and horizontal picture size.

Symptom of Misadjustment:

The picture size is on the vertical and horizontal axis is abnormal.

Test Point:

Adjustment:

```
V SIZE (EVR),
H CENTER (EVR),
V POSITION (EVR)
(For model with 13 inch CRT)
```

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack, Monoscope Pattern Signal

Mode:

STOP

Equipment:

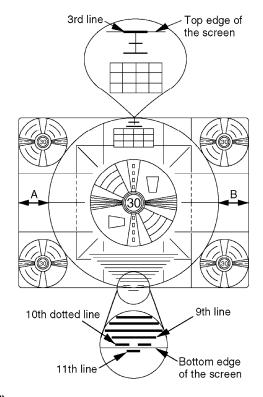
NTSC Video Pattern Generator

(For model with 13 inch CRT)

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Select H CENTER in EVR adjustment mode and adjust so that A is approximately equal to width B.
- 3. Select V SIZE in EVR adjustment mode and adjust so that the top 3rd line is just in view.
- 4. Confirm that the 10th dotted line is in view and that the 11th line is out of view.

If the line are not positioned correctly, select V POSITION in adjustment mode and adjust correctly.

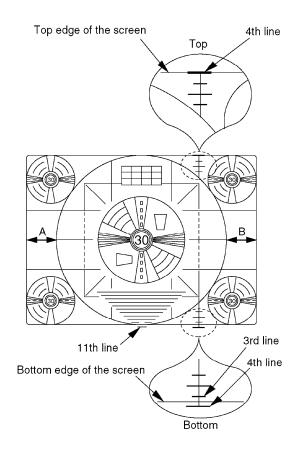
Fig.E12-1



(For model with 20 inch CRT)

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Select H CENTER in EVR adjustment mode and adjust so that A is approximately equal to width B.
- 3. Select V SIZE in EVR adjustment mode and adjust so that the top 4th line is just in view.
- 4. Confirm that the bottom 3rd line is in view and that the bottom 4th line is out of view.

Fig.E12-2



7.3.15. WHITE BALANCE ADJUSTMENT

Purpose:

To set the standard white level for each color temperature.

Symptom of Misadjustment:

White becomes bluish or reddish.

Test Point:

TP50 (CRT C.B.A)

Adjustment:

FOCUS CONTROL (Flyback Transformer), SCREEN CONTROL (Flyback Transformer), SUB BRIGHT (EVR), G DRIVE (EVR), B DRIVE (EVR), R CUT -OFF (EVR), G CUT -OFF (EVR), B CUT -OFF (EVR)

Specification:

Refer to descriptions below.

INPUT:

Video Input Jack, Monoscope Pattern Signal, White Pattern Signal

Mode:

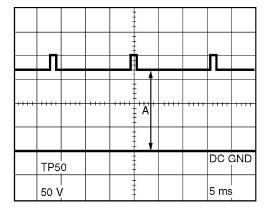
STOP

Equipment:

NTSC Video Pattern Generator, White Pattern Generator, Oscilloscope

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- 4. Adjust the FOCUS CONTROL on the Flyback Transformer so that the center of picture is the sharpest.
- 5. Press DISPLAY key (Service Switch) on the remote control for collapse scan. (Refer to HOW TO ENTER SERVICE MODE.)
- 6. Turn the SCREEN CONTROL on Flyback Transformer fully counterclockwise.
- 7. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is (140 VDC±5 VDC: For model with 13 inch CRT) or (170 VDC±5 VDC For model with 20 inch CRT).

Fig.E13



- 8. Turn the SCREEN CONTROL on the Flyback Transformer clockwise carefully and stop at the point where any color is first observed.
- 9. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (B CUT -OFF, G CUT -OFF, or R CUT -OFF) and adjust so that the horizontal line becomes white. For example, if the horizontal line appeared red in step 8, select and adjust the B CUT -OFF and G CUT -OFF.
- 10. Supply a White Pattern Signal to the Video Input Jack.
- 11. Press DISPLAY key on the remote control again to return for full frame scan.
- 12. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.
- 13. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the minimum (C0) and while turning SUB BRIGHT value from minimum (C0) up to maximum (3F), confirm that the screen is tracking the White Pattern properly. Repeat the above steps 5, 9, 11, and 12 until the screen is properly tracking the White Pattern.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

7.3.16. SUB BRIGHTNESS ADJUSTMENT

Purpose:

To set the optimum brightness level.

Symptom of Misadjustment:

The picture is too white or too black.

Test Point:

Adjustment:

SUB BRIGHT (EVR)

Specification:

Refer to descriptions below.

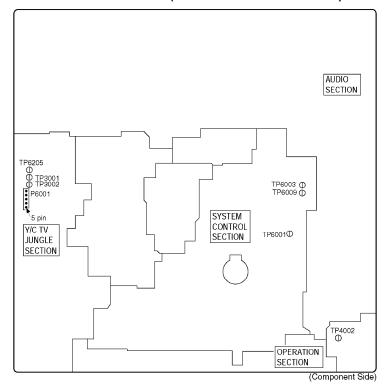
INPUT:

Mode:

STOP

- 1. Do not input any signal to the unit.
- 2. Set INPUT SELECT item to LINE in SET UP TV menu to display black screen.
- 3. Select SUB BRIGHT in EVR adjustment mode, and adjust so that the black screen starts to turn grey (lighting only).

7.4. TEST POINTS AND CONTROL LOCATION



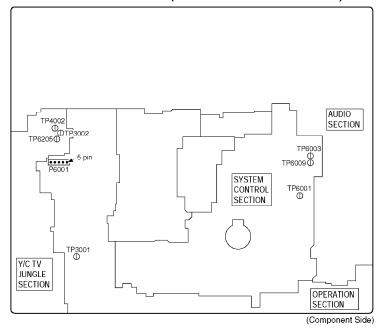
TV/VCR Main C.B.A. (For model with 13 inch CRT)

FUNCTION OF IMPORTANT TEST POINTS		
TP3001	Video Signal	
TP3002	REC/PB Video envelope signal	
TP4002	Normal Audio signal	
TP6001	Service Test Point (inhibit sensors)	
TP6003	Defeat Auto tracking function (connect to +5V(TP6009))	
TP6009	+5V	
TP6205	Head SW.	

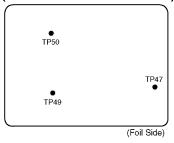
Test Point Information

- Test Point with a Test Pin.
- $\ensuremath{\Phi}$ Test Point with a jumper wire across a hole in the P.C.B.
- O Test Point with no Test Pin.

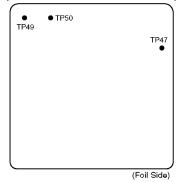
TV/VCR Main C.B.A. (For model with 20 inch CRT)



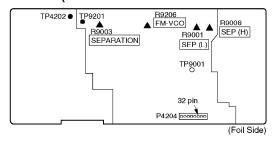
CRT C.B.A. (For model with 13 inch CRT)



CRT C.B.A. (For model with 20 inch CRT)



Audio C.B.A. (For model with TV STEREO/Hi-Fi AUDIO)



8. SCHEMATIC DIAGRAMS

8.1. SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES

8.2. MAIN SCHEMATIC DIAGRAM

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C1341, PV-C1351W)

(Model: PV-C2011, PV-C2021, PV-C2031W, VV-2001, PV-C2061)

8.3. AUDIO SCHEMATIC DIAGRAM

(Model: PV-C2061)

8.4. CAPSTAN STATOR SCHEMATIC DIAGRAM

8.5. HEAD AMP SCHEMATIC DIAGRAM

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C2011, PV-C2021, PV-C2031W, VV -2001)

(Model: PV-C1341, PV-C1351W, PV-C2061)

8.6. CRT SCHEMATIC DIAGRAM

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C1341, PV-C1351W)

(Model: PV-C2011, PV-C2021, PV-C2031W, VV-2001, PV-C2061)

8.7. INTERCONNECTION SCHEMATIC DIAGRAM

8.8. SIGNAL WAVEFORMS

8.9. VOLTAGE CHART

9. CIRCUIT BOARD LAYOUT

9.1. TV/VCR MAIN C.B.A.

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C1341, PV-C1351W)

(Model: PV-C2011, PV-C2021, PV-C2031W, VV-2001, PV-C2061)

9.2. AUDIO C.B.A.

(Model: PV-C2061)

9.3. CAPSTAN STATOR C.B.A.

9.4. HEAD AMP C.B.A.

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C2011, PV-C2021, PV-C2031W, VV

-2001)

(Model: PV-C1341, PV-C1351W, PV-C2061)

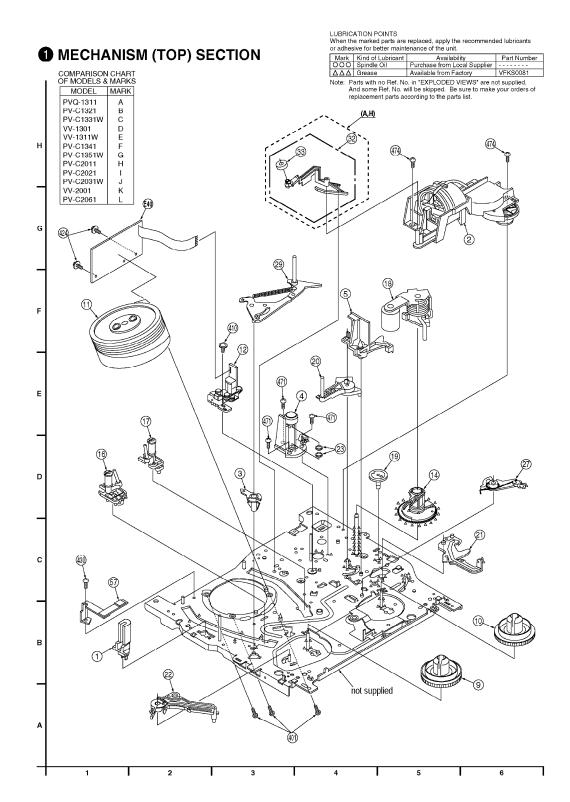
9.5. CRT C.B.A.

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C1341, PV-C1351W)

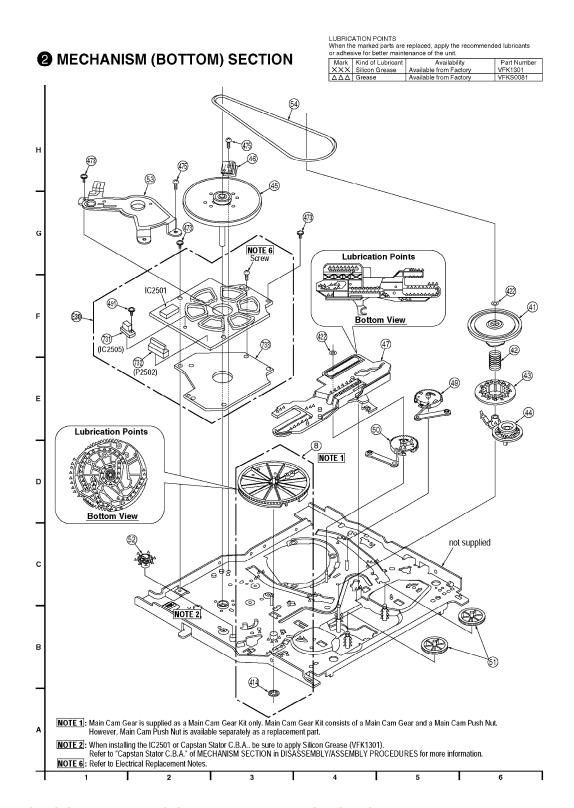
(Model: PV-C2011, PV-C2021, PV-C2031W, VV-2001, PV-C2061)

10. BLOCK DIAGRAMS

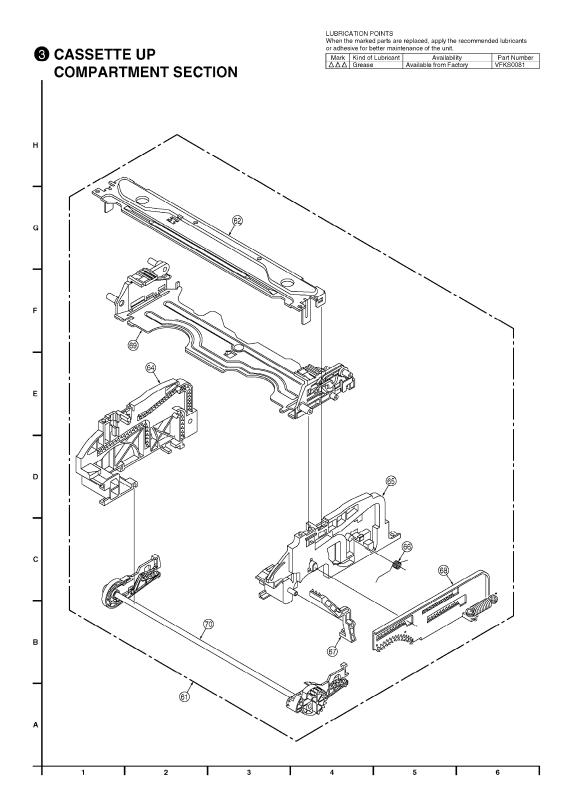
- 10.1. POWER SUPPLY BLOCK DIAGRAM
- 10.2. VIDEO SIGNAL PATH BLOCK DIAGRAM
- 10.3. AUDIO SIGNAL PATH BLOCK DIAGRAM
- 10.4. MTS/SAP AUDIO /AUDIO AMP BLOCK DIAGRAM (Model: PV-C2061)
- 10.5. SYSTEM CONTROL BLOCK DIAGRAM
- 10.6. SERVO BLOCK DIAGRAM
- 10.7. TV/YC PROCESS BLOCK DIAGRAM
- 11. EXPLODED VIEWS
- 11.1. MECHANISM (TOP) SECTION



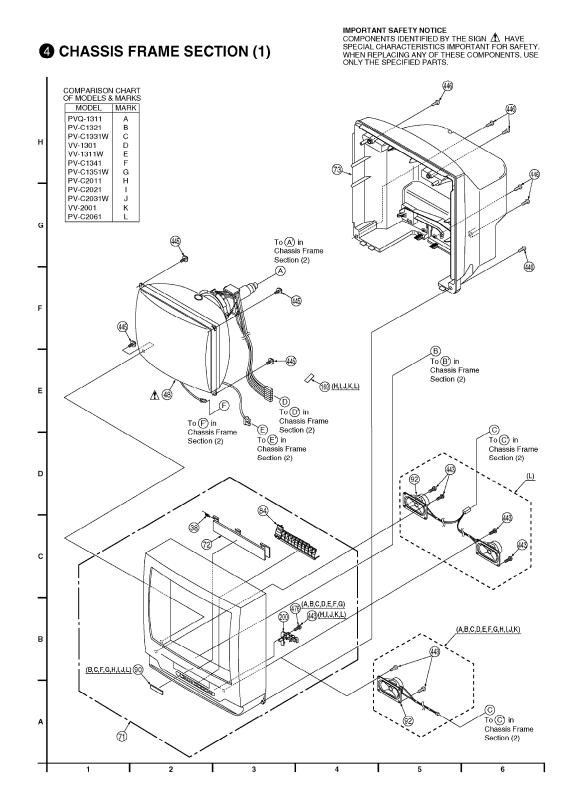
11.2. MECHANISM (BOTTOM) SECTION



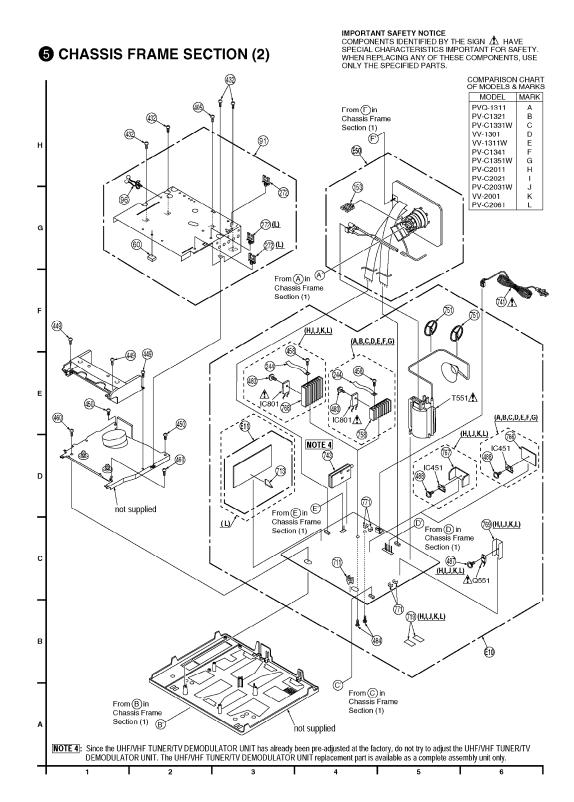
11.3. CASSETTE UP COMPARTMENT SECTION



11.4. CHASSIS FRAME SECTION (1)



11.5. CHASSIS FRAME SECTION (2)



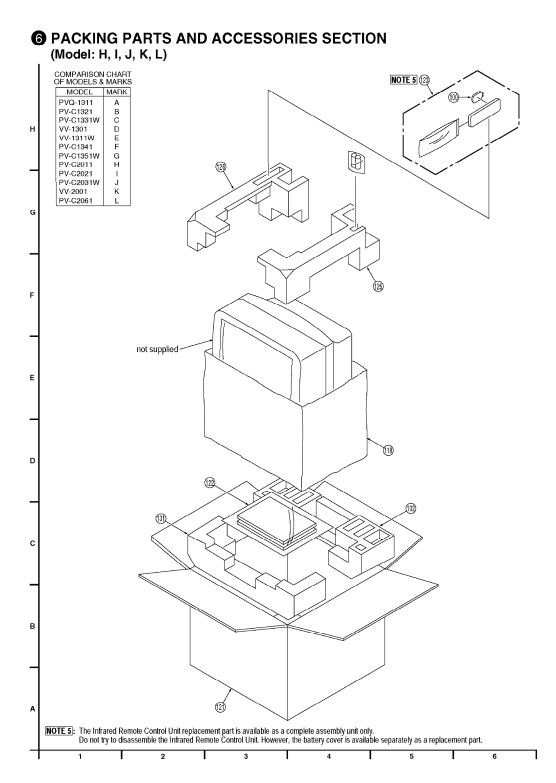
11.6. PACKING PARTS AND ACCESSORIES SECTION

(Model: PVQ-1311, PV-C1321, PV-C1331W, VV-1301, VV-1311W, PV-C1341, PV-C1351W)

16 PACKING PARTS AND ACCESSORIES SECTION (Model: A, B, C, D, E, F, G) COMPARISON CHART OF MODELS & MARKS MODEL MARK NOTE 5 (23) PVQ-1311 PVQ-1311 PV-C1321 PV-C1331W VV-1301 VV-1311W PV-C1341 PV-C1351W PV-C2011 ABCDEFGH PV-C2021 PV-C2031W VV-2001 PV-C2061 not supplied-Ε not supplied (27) (B,C) (B,C)(28) С

(Model: PV-C2011, PV-C2021, PV-C2031W, VV-2001, PV-C2061)

NOTE 5: The Infrared Remote Control Unit replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.



12. REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

12.1. REPLACEMENT NOTES

12.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign \triangle have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- 5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 6. All of parts are supplied from MKA.
- 7. Item numbers with capital letter E (Example: E10, E20,...) in the Ref. No. column are shown in the exploded views.

12.1.2. Mechanical Replacement Notes

- 1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. Main Cam Gear is supplied as a Main Cam Gear Kit (Ref. No. 8) only. Main Cam Gear Kit consists of a Main Cam Gear and a Main Cam Push Nut. However, Main Cam Push Nut is available separately as a replacement part.

- 3. The Infrared Remote Control Unit (Ref. No. 123) replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.
- 4. Main Cam Push Nut (Ref. No. 414) is not reusable. If removed, install a new one.

12.1.3. Electrical Replacement Notes

1. Unless otherwise specified; All resistors are in Ω , K = 1,000 Ω , M = 1,000 k Ω .

2. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component W FLMPRF: Wirewound Flameproof

C.B.A.: Circuit Board Assembly P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

3. SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 W. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

- 4. When replacing 0 Ω resistor, a wire can be substituted for it.
- 5. When installing the IC2501 (AN3846SC) or Capstan Stator C.B.A., be sure to apply Silicon Grease (VFK1301). Refer to "Capstan Stator C.B.A." of MECHANISM SECTION in DISASSEMBLY/ASSEMBLY PROCEDURES.

- 6. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT (Ref. No. 743) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATOR UNIT replacement part is available as a complete assembly unit only.
- 7. EEP ROM IC (IC6004), TV/VCR MAIN C.B.A. replacement note: After replacing EEP ROM IC (IC6004) or TV/VCR MAIN C.B.A., be sure to write the initial data with remote control.
- 8. The Capstan Stator C.B.A. (Ref. No. E30) as a service part is supplied with the Screw installed on it. Please note that there is no functional difference between the units with or without the Screw.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	I
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

12.2. MECHANICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

MECHANICAL REPLACEMENT PARTS

Ref. No.	Part No. Part Name & Description		Remarks
-	VBSS0033	FULL ERASE HEAD	1
	VXKS0901	MOTOR BLOCK UNIT	1
	LSDB0045	TENSION ARM BOSS	1
	VXDS0212	CAPSTAN HOLDER UNIT	1
	LSMD0209	OPENER PIECE	1
	VVGS0009	MAIN CAM GEAR KIT	2
	LSDR0002	S REEL TABLE	1
<u>0</u>	LSDR0003	T REEL TABLE	1
<u>1</u>	VEGS0453	CYLINDER UNIT (A,B,C,D,E,H,I,J,K)	1
1	VEGS0454	CYLINDER UNIT (F,G,L)	1
2	VEHS0596	AUDIO CONTROL/ERASE HEAD UNIT	1
4	LSDG0112	LIFT GEAR	1
<u>6</u>	VXDS0213	LOADING POST BASE-S UNIT	1
7	VXDS0214	LOADING POST BASE-T UNIT	1
<u>8</u>	VXLS1094	PINCH ARM UNIT	1
9	LSDG0110	INTERMEDIATE GEAR A	1
<u> </u>	VXLS1101	P5 ARM UNIT	1
<u>-</u> 1	LSML0131	DRIVE RACK ARM	1
 2	VXLS1103	TENSION CONTROL ARM UNIT	1
3	LSMX0129	OIL SEAL	1
- 7	VXLS1100	T BRAKE UNIT	1
 9	VXLS1102	TENSION ARM UNIT	1
<u> </u>	VXLS1104	CLEANER ARM UNIT (A,H)	1
= 3	VDPS0269	CLEANER ROLLER (A,H)	1
<u>=</u> 8	LSMB0221	CASSETTE DOOR SPRING (A,B,C,D,E,F,G)	4
<u>=</u> 8	LSMB0230	CASSETTE DOOR SPRING (H,J,K,L)	4
1	VXPS0389	CENTER CLUTCH UNIT	2
<u>.</u> 2	VMBS1151	CHANGING GEAR SPRING	2
=	LSDG0114	CHANGING GEAR	2
<u> </u>	VXLS1091	IDLER ARM UNIT	2
<u>≖</u> 5	VXPS0391	CAPSTAN ROTOR UNIT	2
<u>5</u> 6	LSMA0387	STOPPER ANGLE	2
_		MAIN ROD	2
<u>7</u>	LSMM0003		
<u>8</u>	LXQVB02131	COLOR PICTURE TUBE UNIT (A,D,E)	△4
8	LXQVB01131	COLOR PICTURE TUBE UNIT (B,C,F,G)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	LXQVB01201	COLOR PICTURE TUBE UNIT (H,I,J,K,L)	Δ_4
<u>9</u>	VXLS1099	S LOADING ARM UNIT	2
<u>0</u>	VXLS1098	T LOADING ARM UNIT	2
<u>1</u>	LSDG0116	REEL GEAR	2
2	LSDG0111	INTERMEDIATE GEAR B	2
<u>3</u>	LSMA0423	SUPPORT ANGLE	2
<u>4</u>	LSDV0007	CAPSTAN BELT SQUARE,RUBBER 2MM	2
<u> </u>	VXSS0010	GROUNDING PLATE UNIT	1
 0	VMFS0311	CUSHION	5
<u>-</u> <u>1</u>	VXYS1347	CASSETTE UP ASS'Y	3
<u>.</u> 2	LSMA0352	TOP PLATE	3
<u>-</u> <u>4</u>	LSMD0174	SIDE PLATE L	3
<u> </u>	LSMD0173	SIDE PLATE R	3
<u>5</u> <u>6</u>	LSMB0218	SUPPORT SPRING	3

Ref. No.	Part No.	Part Name & Description	Remarks
LSML0096		OPENER LEVER	3
<u>8</u>	VXLS1111	DRIVE RACK UNIT	3
<u>9</u>	VXAS4423	HOLDER UNIT	3
<u>'0</u>	VXLS1110	WIPER ARM UNIT	3
<u>'1</u>	LXQKY01130	FRONT CABINET ASS'Y (A)	4
'1	LXQKY02130	FRONT CABINET ASS'Y (B)	4
'1	LXQKY03130	FRONT CABINET ASS'Y (C)	4
71	LXQKY06130	FRONT CABINET ASS'Y (D)	4
'1	LXQKY07130	FRONT CABINET ASS'Y (E)	4
'1	LXQKY04130	FRONT CABINET ASS'Y (F)	4
71	LXQKY05131	FRONT CABINET ASS'Y (G)	4
71	LXQKY01201	FRONT CABINET ASS'Y (H)	4
' 1	LXQKY02201	FRONT CABINET ASS'Y (1)	4
'1	LXQKY03201	FRONT CABINET ASS'Y (J)	4
'1	LXQKY06200	FRONT CABINET ASS'Y (K)	4
'1	LXQKY04200	FRONT CABINET ASS'Y (L)	4
<u>'2</u>	LKK688041A	CASSETTE DOOR-LID (A)	4
<u> </u>	LKK688043A	CASSETTE DOOR-LID (B)	4
2	LKK688044A	CASSETTE DOOR-LID (C)	4
	LSKF0300	CASSETTE DOOR-LID (D)	4
	LKK688042A	CASSETTE DOOR-LID (E)	4
<u>-</u> '2	LKK688039A	CASSETTE DOOR-LID (F)	4
<u>-</u> '2	LKK688040A	CASSETTE DOOR-LID (G)	4
<u>-</u> '2	LSKF0365	CASSETTE DOOR-LID (H)	4
72	LSKF0354	CASSETTE DOOR-LID (1)	4
<u>2</u> 72	LSKF0355	CASSETTE DOOR-LID (1)	4
<u>2</u> 72	LKK688048A	CASSETTE DOOR-LID (K)	4
<u>2</u> 72	LSKF0292	CASSETTE DOOR-LID (L)	4
		, ,	4
<u>'3</u>	LKV60601A	REAR COVER (A,B,D,F)	
'3 '2	LKV60602B	REAR COVER (C,E,G)	4
'3 ·	LKV60501A	REAR COVER (H,I,K)	4
'3 	LKV60505B	REAR COVER (J)	4
' 3	LXQKV1209P	REAR COVER UNIT (L)	4
<u>84</u>	LBY61045B	OPERATION BUTTON (A,D)	4
34	LBY61044B	OPERATION BUTTON (B,F,H,I,L)	4
34	LBX61072B	OPERATION BUTTON (C,G,J)	4
34	LBX61076B	OPERATION BUTTON (E)	4
34	LBX61074B	OPERATION BUTTON (K)	4
<u>10</u>	TBM153023	BADGE,ABS RESIN (B,C,F,G)	4
0	TBM153022	BADGE,ABS RESIN (H,I,J,L)	4
<u>)1</u>	LXQUS01131K	TOP SHIELD PLATE ASS'Y (A,B,C,D,E,F,G)	5
1	LXQUS01201K	TOP SHIELD PLATE ASS'Y (H,I,J,K)	5
1	LXQUS04201K	TOP SHIELD PLATE ASS'Y (L)	5
<u>)2</u>	LXQAS01J13	SPEAKER UNIT (A,B,C,D,E,F,G,H,I,J,K)	4
<u>)2</u>	LXQAS1301S	SPEAKER UNIT (L)	4
<u>16</u>	LML69002A	CLAMPER	5
00	LSKF0360	BATTERY COVER (A,H)	6
00	LSKF0361	BATTERY COVER (B,F)	6
00	LSKF0362	BATTERY COVER (C,G)	6
100	LSKF0363	BATTERY COVER (D,K)	6

Ref. No.	Part No.	Part Name & Description	Remarks	
100	LSKF0364	BATTERY COVER (E)	6	
100	VKFS2235	BATTERY COVER (I,L)	6	
00	VKFS2237	BATTERY COVER (J)	6	
l <u>18</u>	LPE64003A	BAG,POLYETHYLENE (A,B,C,D,E,F,G)	6	
118	LPE64004A	BAG,POLYETHYLENE (H,I,J,K,L)	6	
121	LSPG1023	PACKING CASE,PAPER (A)	6	
121	LSPG1024	PACKING CASE,PAPER (B)	6	
121	LSPG1025	PACKING CASE,PAPER (C)	6	
121	LSPG1028	PACKING CASE,PAPER (D)	6	
121	LSPG1029	PACKING CASE,PAPER (E)	6	
121	LSPG1026	PACKING CASE,PAPER (F)	6	
121	LSPG1027	PACKING CASE,PAPER (G)	6	
121	LSPG1031	PACKING CASE,PAPER (H)	6	
21	LSPG1032	PACKING CASE,PAPER (I)	6	
21	LSPG1033	PACKING CASE,PAPER (J)	6	
21	LSPG1030	PACKING CASE,PAPER (K)	6	
21	LSPG1034	PACKING CASE,PAPER (L)	6	
22	LSQF0343	FAN BAG (A)	6	
22	LSQF0344	FAN BAG (B,C,F,G)	6	
122	LSQF0348	FAN BAG (D,E,K)	6	
22	LSQF0333	FAN BAG (H)	6	
22	<u> </u>	, ,		
	LSQF0334	FAN BAG (I,)	6	
22	LSQF0332	FAN BAG (L)	6	
23	LSSQ0280	INFRARED REMOTE CONTROL UNIT (A,H)	6	
23	LSSQ0281	INFRARED REMOTE CONTROL UNIT (B,F)	6	
123	LSSQ0282	INFRARED REMOTE CONTROL UNIT (C,G)	6	
23	LSSQ0283	INFRARED REMOTE CONTROL UNIT (D,K)	6	
123	LSSQ0284	INFRARED REMOTE CONTROL UNIT (E)	6	
23	LSSQ0278	INFRARED REMOTE CONTROL UNIT (I)	6	
123	LSSQ0279	INFRARED REMOTE CONTROL UNIT (J)	6	
123	LSSQ0276	INFRARED REMOTE CONTROL UNIT (L)	6	
125	LPJ61029A	TOP CUSHION RIGHT, STYROFOAM (A,B,C,D,E,F,G)	6	
125	LPJ61028A	TOP CUSHION RIGHT, STYROFOAM (H,I,J,K,L)	6	
126	LPJ61030A	TOP CUSHION LEFT, STYROFOAM (A,B,C,D,E,F,G)	6	
126	LPJ61027A	TOP CUSHION LEFT, STYROFOAM (H,I,J,K,L)	6	
127	837924	CHECK POINT LABEL (B,C)	6	
28	ZLDRS1	SECURITY TAG (B,C)	6	
31	LPJ62029A	BOTTOM CUSHION FRONT, STYROFOAM (A,B,C,D,E,F,G)	6	
131	LPJ62027A	BOTTOM CUSHION FRONT, STYROFOAM (H,I,J,K,L)	6	
132	LPJ62030A	BOTTOM CUSHION REAR, STYROFOAM (A,B,C,D,E,F,G)	6	
132	LPJ62028A	BOTTOM CUSHION REAR, STYROFOAM (H,I,J,K,L)	6	
53	TMM7443-1	CLAMPER	5	
69	TSM10032-2	PERMALLOY MAGNETIC STRIP (H,I,J,K,L)	4	
200	LKK683011A	PANEL LIGHT (A,D,E)	4	
200	LKK683010A	PANEL LIGHT (B,C,F,G)	4	
200	LKK683009A	PANEL LIGHT (H,I,J,L)	4	
200	LKK683013A	PANEL LIGHT (K)	4	
2 <u>44</u>	TUX77809	CLAMPER	5	
<u>172</u> 1 <u>01</u>	TMM77412 VHDS0475	CLAMPER SCREW,STEEL	1	

Ref. No.	Part No.	Part Name & Description	Remarks
<u>105</u>	VHDS0496	SCREW W/WASHER,STEEL	5
10	VHDS0498	SCREW W/WASHER,STEEL	1
14	VHNS0070	MAIN CAM PUSH NUT,STEEL	2
22	XWGV2D5G	WASHER,NYLON	2
24	XYC26+SF6J	SCREW W/WASHER,STEEL	1
<u>130</u>	XTV26+6FFZJ	TAPPING SCREW,STEEL	1
132	XTV3+8JR	TAPPING SCREW,STEEL	5
143	XTV4+12A	TAPPING SCREW,STEEL	4
l <u>45</u>	THE492-4	SCREW W/WASHER,STEEL (A,B,C,D,E,F,G)	4
145	LHT60002Y	SCREW,STEEL (H,I,J,K,L)	4
<u>146</u>	XTV4+16A	TAPPING SCREW,STEEL	4
149	VHDS0493	TAPPING SCREW,STEEL	5
50	VHDS0309	SCREW,STEEL	5
58	XTV3+8J	TAPPING SCREW,STEEL	5
60	XTN4+12A	TAPPING SCREW,STEEL	5
<u></u>	XSN26+5	SCREW,STEEL	1
73	XYN26+C6	SCREW W/WASHER,STEEL	2
74	LSHD0056	TAPPING SCREW,STEEL	1
75	XTV26+5FJ	TAPPING SCREW,STEEL	2
76	XTV3+12G	TAPPING SCREW,STEEL (A,B,C,D,E,F,G)	4
83	XYN3+F10S	SCREW W/WASHER,STEEL	5
84	XTW3+10J	TAPPING SCREW,STEEL	5
87	XYN3+J8	SCREW W/WASHER,STEEL	5
88	XYN3+F6S	SCREW W/WASHER,STEEL	5
91	XYN2+J7	SCREW W/WASHER,STEEL	2
	PNA4611M00HC	,	
<u>'11</u>		INFRARED RECEIVER UNIT	5
13	VMAS1912	P.C.B. SUPPORT ANGLE	5
<u>'19</u>	VMFS0136	SHEET,NYLON-RAYON	5
31(IC2505)	EZMPS300F12	MR HEAD	2
32(P2502)	LSJS0097	CONNECOR 12P	2
<u>'33</u>	LSMA0384	BACK PLATE,STEEL	2
<u>′41</u>	LSJA0362	AC CORD W/PLUG,120V (A,B,D,F,H,I,K,L)	<u> </u>
741	LSJA0343	AC CORD W/PLUG,120V (A,B,D,F,H,I,K,L)	<u> </u>
'41	LSJA0363	AC CORD W/PLUG,120V (C,E,G,J)	<u> </u>
741	LSJA0344	AC CORD W/PLUG,120V (C,E,G,J)	A ₅
<u>'43</u>	ENG36706G	TUNER,UHF/VHF NR (A,D,E,H,K)	5
'43	ENG36709G	TUNER,UHF/VHF NR (B,C,F,G,I,J,L)	5
<u>'51</u>	LML69001A	ANODE LEAD CLAMPER	5
<u>'58</u>	TUC77616	HEAT SINK	5
<u>'66</u>	TUC76677-1	HEAT SINK	5
67	TUC77626	HEAT SINK	5
<u>'68</u>	TUC77603-1	HEAT SINK	5
69	LUS23005B	HEAT SINK	5
<u>'71</u>	EYF52BC	FUSE HOLDER	5
<u>/ 1</u> E10	VEPS3098C	TV/VCR MAIN C.B.A. (A,D,E)	5 E.S.D. RTL
10	VEPS3098B	TV/VCR MAIN C.B.A. (B,C)	5 E.S.D. RTL
10 10	VEPS3098A	TV/VCR MAIN C.B.A. (F,G)	5 E.S.D. RTL
	VEPS3096C	TV/VCR MAIN C.B.A. (H,K)	5 E.S.D. RTL

Ref. No.	Part No.	Part Name & Description	Remarks
E10	VEPS3096A	TV/VCR MAIN C.B.A. (L)	5 E.S.D. RTL
E11	VEPS4032A	AUDIO C.B.A. (L)	5 E.S.D. RTL
E30	VEMS0342	CAPSTAN STATOR C.B.A. NR	2
E40	VEPS5043A	HEAD AMP C.B.A (A,B,C,D,E,H,I,J,K)	1 RTL
E40	VEPS5042A	HEAD AMP C.B.A (F,G,L)	1 RTL
E50	LRP63004C	CRT C.B.A. (A,B,C,D,E,F,G)	5 RTL
E50	LRP63022A	CRT C.B.A. (H,I,J,K,L)	5 RTL

SERVICE FIXTURES AND TOOLS

Ref. No. Part No. VFMS0003H6	Part No.	Part Name & Description	Remarks
	VHS ALIGNMENT TAPE		
	VFKS0081	GREASE	
	VFK0329	POST ADJUSTMENT DRIVER	
	VFK1301	SILICON GREASE	
	VFK27	HEAD CLEANING STICK	
	VFK0330	H-POSITION ADJUSTMENT DRIVER	
	TSM10032-2	PERMALLOY MAGNETIC STRIP	

12.3. ELECTRICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	I
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E10	VEPS3098C	TV/VCR MAIN C.B.A. (A,D,E)	E.S.D. RTL
E10	VEPS3098B	TV/VCR MAIN C.B.A. (B,C)	E.S.D. RTL
E10	VEPS3098A	TV/VCR MAIN C.B.A. (F,G)	E.S.D. RTL
E10	VEPS3096C	TV/VCR MAIN C.B.A. (H,K)	E.S.D. RTL
E10	VEPS3096B	TV/VCR MAIN C.B.A. (I,J)	E.S.D. RTL
E10	VEPS3096A	TV/VCR MAIN C.B.A. (L)	E.S.D. RTL
E11	VEPS4032A	AUDIO C.B.A. (L)	E.S.D. RTL
E30	VEMS0342	CAPSTAN STATOR C.B.A. NR	
E40	VEPS5043A	HEAD AMP C.B.A (A,B,C,D,E,H,I,J,K)	RTL
E40	VEPS5042A	HEAD AMP C.B.A (F,G,L)	RTL
E50	LRP63004C	CRT C.B.A. (A,B,C,D,E,F,G)	RTL
E50	LRP63022A	CRT C.B.A. (H,I,J,K,L)	RTL

12.3.1. TV/VCR MAIN C.B.A.

(Model: A, B, C, D, E, F, G)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	P V -C2061	L

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC451	LA7837	IC, LINEAR	
IC501	TLP621GR	IC, LINEAR	Δ
IC501	0N3131-R	IC, LINEAR	Δ
IC501	0N3131-R.KT	IC, LINEAR	Δ
IC801	STR30130	IC, LINEAR	Δ
IC1001	0N3131-R.KT	IC, LINEAR	⚠
IC2601	AN3808K	IC, LINEAR	
IC3001	AN3479FBP-A	IC, LINEAR	
IC3201	MN3885S	IC, CCD	E.S.D.
IC4501	LA4285	IC, LINEAR	
IC5301	AN5367FB	IC, LINEAR	
IC6001	MN101D07HCA	IC, 8BIT MICROCONTROLLER	E.S.D.
IC6002	RPI-303	PHOTO INTERRUPUTER	
IC6003	RPI-303	PHOTO INTERRUPUTER	
IC6004	BR24C01AFWE2	IC, 1K EEP ROM	E.S.D.
IC6004	AT24C01A10SI	IC, 1K EEP ROM	E.S.D.
IC6004	KS24C011IS	IC, 1K EEP ROM	E.S.D.
IC6004	M24C01-MN6	IC, 1K EEP ROM	E.S.D.
IC6005	PST3147NR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	RN5VS47CA-TR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	XC61CC4702MR	IC, CMOS STANDARD LOGIC	E.S.D.

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q431	2SA733(TQ)	TRANSISTOR SI PNP	
Q431	2SA1175	TRANSISTOR SI PNP	
Q431	2SA1175(TH)	TRANSISTOR SI PNP	
Q432	2SC3311A(R)	TRANSISTOR SI NPN	
Q433	2SB1322A(R)	TRANSISTOR SI PNP	
Q434	2SC3311A(R)	TRANSISTOR SI NPN	
Q501	2SC2482KT6	TRANSISTOR SI NPN	
Q502	2SC945A(TQ)	TRANSISTOR SI NPN	
Q502	2SC2785(TH)	TRANSISTOR SI NPN	
Q502	2SC2785(TJ)	TRANSISTOR SI NPN	
Q541	2SB709A(R,S)	TRANSISTOR SI PNP CHIP	
Q542	2SD601A	TRANSISTOR SI NPN CHIP	
Q542	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q551	2SD2586LBK	TRANSISTOR SI NPN	Δ
Q571	2SD601A	TRANSISTOR SI NPN CHIP	
Q571	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q581	2SA1321TPE6	TRANSISTOR SI NPN	
Q581	2SA1767(Q)	TRANSISTOR SI NPN	
Q581	2SB1221(Q)	TRANSISTOR SI NPN	
Q801	2SC945A(TKA)	TRANSISTOR SI NPN	
Q801	2SC1684(Q,R,S)	TRANSISTOR SI NPN	
Q801	2SC2785(TE)	TRANSISTOR SI NPN	
Q801	2SC2785(TF)	TRANSISTOR SI NPN	
Q801	2SC2785(TH)	TRANSISTOR SI NPN	
Q801	2SC2785(TJ)	TRANSISTOR SI NPN	
Q801	2SC2785(TK)	TRANSISTOR SI NPN	
Q801	2SC3311A(Q,R,S)	TRANSISTOR SI NPN	
Q801	2SC945A(TPA)	TRANSISTOR SI NPN	
Q801	2SC945A(TQA)	TRANSISTOR SI NPN	
Q1001	2SC4533LP.KT	TRANSISTOR SI NPN	<u> </u>
Q1001	2SC5130LF608	TRANSISTOR SI NPN	_
Q1002	2SD2259	TRANSISTOR SI NPN	
Q1002	2SD1458	TRANSISTOR SI NPN	
Q1003	2SD1819ARS	TRANSISTOR SI NPN CHIP	
Q1003	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q1004	2SB709ARS	TRANSISTOR SI PNP CHIP	
Q1004	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q1005	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q1005	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q1051	2SD2159(T)	TRANSISTOR SI NPN	
Q1051	2SD1581(T)	TRANSISTOR SI NPN	
Q1052	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q1052	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q1053	2SD235800A	TRANSISTOR SI NPN CHIP	
Q1053	2SD2097TV2R	TRANSISTOR SI NPN CHIP	
Q3001	2SB709A	TRANSISTOR SI PNP CHIP	
Q3001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q3002	2SD601A	TRANSISTOR SI NPN CHIP	
Q3002	2SC2412K146R	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q3301	2SD601A	TRANSISTOR SI NPN CHIP	
Q3301	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q4001	2SB709A	TRANSISTOR SI PNP CHIP	
Q4001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q4002	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q4003	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q4101	2SD601A	TRANSISTOR SI NPN CHIP	
Q4101	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q4171	2SD601A	TRANSISTOR SI NPN CHIP	
Q4171	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q5301	2SD601A	TRANSISTOR SI NPN CHIP	
Q5301	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q5901	2SD2259	TRANSISTOR SI NPN	
Q5901	2SD1858-RTV2	TRANSISTOR SI NPN	
Q6001	2SB709A	TRANSISTOR SI PNP CHIP	
Q6001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6002	2SD601A	TRANSISTOR SI NPN CHIP	
Q6002	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6003	2SD601A	TRANSISTOR SI NPN CHIP	
Q6003	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6004	2SB709A	TRANSISTOR SI PNP CHIP	
Q6004	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6005	2SB709A	TRANSISTOR SI PNP CHIP	
Q6005	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6006	2SD601A	TRANSISTOR SI NPN CHIP	
Q6006	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6009	VEKS5707	PHOTO SENSOR UNIT	
Q6010	VEKS5707	PHOTO SENSOR UNIT	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D401	ERB12-01V	DIODE SI	
D401	ERB12-01	DIODE SI	
D401	ERB12-01RKV1	DIODE SI	
D502	MA165	DIODE SI	
D502	1SS119	DIODE SI	
D502	1SS133T	DIODE SI	
D503	ERB43-04V	DIODE SI	
D503	ES1V	DIODE SI	
D504	MA4047-M	DIODE ZENER 4.7V	
D504	MA4047-H	DIODE ZENER 4.7V	
D504	RD4.7ESAB	DIODE ZENER 4.7V	
D504	RD4.7ESAB2	DIODE ZENER 4.7V	
D504	04AZ4.7ZTPA7	DIODE ZENER 4.7V	
D505	MA165	DIODE SI	
D505	1SS119	DIODE SI	
D505	1SS133T	DIODE SI	
D506	MA165	DIODE SI	
D506	1SS119	DIODE SI	
D506	1SS133T	DIODE SI	
D541	MA165	DIODE SI	
D541	1SS119	DIODE SI	
D541	1SS133T	DIODE SI	
D542	MA4180-M	DIODE ZENER 18V	
D543	MA165	DIODE SI	
D543	1SS119	DIODE SI	
D543	1SS133T	DIODE SI	
D544	ERB43-04V	DIODE SI	
D544	ES1V	DIODE SI	
D553	ERB43-04V	DIODE SI	
D553	ES1V	DIODE SI	
D554	4148-TA	DIODE SI	
D554	MA167	DIODE SI	
D556	MA185	DIODE SI	
D558	ERB43-04V	DIODE SI	
D558	ES1V	DIODE SI	
D560	ERB43-04V	DIODE SI	
D560	ES1V	DIODE SI	
D591	TRPF5B0M050K	THERMISTOR	\triangle
D591	VRPSKF5JM050	THERMISTOR	Δ
D801	ERC13-08V	DIODE SI	Δ
D801	EM02BMV	DIODE SI	Δ
D802	ERC13-08V	DIODE SI	Δ
D802	EM02BMV	DIODE SI	Δ
D803	ERC13-08V	DIODE SI	Δ
D803	EM02BMV	DIODE SI	<u> </u>
D804	ERC13-08V	DIODE SI	A
D804	EM02BMV	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D805	4148-TA	DIODE SI	
D881	ERZV10V361CS	SURGE ABSORBER	Δ
D882	ERZV10V361CS	SURGE ABSORBER	A
D1001	DB105G	DIODE SI	Δ
D1001	S1NB60-4101	DIODE SI	Δ
D1001	S1WBA60	DIODE SI	Δ
D1002	ERA18-04	DIODE SI	
D1002	EG01	DIODE SI	
D1003	ERA18-04	DIODE SI	
D1003	EG01	DIODE SI	
D1005	ERA18-04	DIODE SI	
D1005	EG01	DIODE SI	
D1006	ERC30-01L3	DIODE SI	
D1006	RU3YXLFC1	DIODE SI	
D1007	MA188	DIODE SI	
D1007	1SS244T-77	DIODE SI	
D1008	ERB81-004	DIODE SI	
D1008	RK14	DIODE SI	
D1011	MA4051N-TAKT	DIODE ZENER 5.1V	
D1012	MA858	DIODE SI	
D1012	1SS135T-77	DIODE SI	
D1013	MA165	DIODE SI	
D1013	1SS119	DIODE SI	
D1013	1SS133T	DIODE SI	
D1015	MA2180LA	DIODE ZENER 18V	Δ
D1015	1N4746A-T	DIODE ZENER 18V	A
D1015	1N4746ARL	DIODE ZENER 18V	Δ
D1016	MA165	DIODE SI	
D1016	1SS119	DIODE SI	
D1016	1SS133T	DIODE SI	
D1051	MA4110N-H	DIODE ZENER 11V	
D4171	MA165	DIODE SI	
D4171	1SS119	DIODE SI	
D4171	1SS133T	DIODE SI	
D4591	RD9.1EW	DIODE ZENER 9.1V	
D5501	MA4062-L	DIODE ZENER 6.2V	A
D5602	MA165	DIODE SI	
D5602	1SS119	DIODE SI	
D5602	1SS133T	DIODE SI	
D5603	MA165	DIODE SI	
D5603	1SS119	DIODE SI	
D5603	1SS133T	DIODE SI	
D6001	VEKS5708	SENSOR LED UNIT	
D6003	MA165	DIODE SI	
D6003	155119	DIODE SI	
D6003	1SS133T	DIODE SI	
D6005	MA165	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D6005	1SS119	DIODE SI	
D6005	1SS133T	DIODE SI	
D6009	MA165	DIODE SI	
D6009	1SS119	DIODE SI	
D6009	1SS133T	DIODE SI	
D6301	SLP913C81HAB	LIGHT EMITTING DIODE RED	
D6302	SLP413C81HAB	LIGHT EMITTING DIODE ORANGE	
D6303	SLP313C81HAB	LIGHT EMITTING DIODE GREEN	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R401	ERDS2TJ821T	CARBON 1/4W 820	
R402	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R405	ERDS1TJ102T	CARBON 1/2W 1K	
R409	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R410	ERDS2TJ152T	CARBON 1/4W 1.5K	
R411	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R413	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R414	ERDS1FJ2R2	CARBON 1/2W 2.2	Δ
R422	ERD25FJ101P	CARBON 1/4W 100	Δ
R427	ERQ14ZJ1R5P	FUSE 1/4W 1.5	Δ
R431	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R432	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R433	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R434	ERDS2TJ103	CARBON 1/4W 10K	
R435	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R436	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R466	ERJ6GEYJ683V	MGF CHIP 1/10W 68K	
R468	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R469	ERDS2TJ222T	CARBON 1/4W 2.2K	
R470	ERDS2TJ152T	CARBON 1/4W 1.5K	
R471	ERDS2TJ391T	CARBON 1/4W 390	
R472	ERDS2TJ471T	CARBON 1/4W 470	
R473	ERDS2TJ101T	CARBON 1/4W 100	
R474	ERDS2TJ222T	CARBON 1/4W 2.2K	
R475	ERDS2TJ222T	CARBON 1/4W 2.2K	
R476	ERDS2TJ561T	CARBON 1/4W 560	
R477	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R478	ERDS2TJ332T	CARBON 1/4W 3.3K	
R481	ERDS2TJ182T	CARBON 1/4W 1.8K	
R482	ERDS2TJ150T	CARBON 1/4W 15	
R501	ERDS2TJ681T	CARBON 1/4W 680	
R502	ERDS2TJ332T	CARBON 1/4W 3.3K	
R503	ER0S2THF1052	PRECISION METAL FILM 1/4W 10.5K	Δ
R503	ER0S2TKF1052	PRECISION METAL FILM 1/4W 10.5K	Δ
R503	VRESR4TF1052	PRECISION METAL FILM 1/4W 10.5K	Δ
R505	ERDS2TJ561T	CARBON 1/4W 560	

Ref. No.	Part No.	Part Name & Description	Remarks
R509	ERDS2TJ101T	CARBON 1/4W 100	
R510	ERDS2TJ472T	CARBON 1/4W 4.7K	
R511	ERG2ANJ222H	METAL OXIDE 2W 2.2K	
R514	ERDS2TJ271T	CARBON 1/4W 270	
R515	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R516	LAR05272J09	W FLMPRF 5W 2.7K	
R519	ERDS2TJ822T	CARBON 1/4W 8.2K	
R520	ERDS2TJ562T	CARBON 1/4W 5.6K	
R524	ERDS2TJ223	CARBON 1/4W 22K	
R525	ERDS2TJ222T	CARBON 1/4W 2.2K	
R529	ERDS2TJ103	CARBON 1/4W 10K	
R531	ERDS2TJ223	CARBON 1/4W 22K	
R541	ERDS2TJ473T	CARBON 1/4W 47K	
R542	ERDS2TJ103	CARBON 1/4W 10K	
R543	ERDS2TJ472T	CARBON 1/4W 4.7K	
R545	ERDS2TJ331T	CARBON 1/4W 330	
R546	ERDS2TJ103	CARBON 1/4W 10K	
R547	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R548	ERDS2TJ104T	CARBON 1/4W 100K	
R552	ERDS2TJ273T	CARBON 1/4W 27K	
R553	ERDS2TJ102	CARBON 1/4W 1K	
R554	ERDS2TJ103	CARBON 1/4W 10K	
R555	ERDS2TJ154T	CARBON 1/4W 150K	
R556	ERDS2TJ823T	CARBON 1/4W 82K	
R557	ERG2SJ471H	METAL OXIDE 2W 470	
R558	ERG2ANJ471H	METAL OXIDE 2W 470	
R561	ERQ1CJP2R2S	FUSE 1W 2.2	Δ
R571	ERDS2TJ101T	CARBON 1/4W 100	
R572	ERDS2TJ331T	CARBON 1/4W 330	
R573	ERDS2TJ221	CARBON 1/4W 220	
R574	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R581	ERDS1FJ2R2	CARBON 1/2W 2.2	Δ
R582	ERDS1FJ2R7P	CARBON 1/2W 2.7	Δ
R584	ERDS2TJ562T	CARBON 1/4W 5.6K	
R585	ERDS2TJ473T	CARBON 1/4W 47K	
R586	ERDS2TJ393T	CARBON 1/4W 39K	
R801	LAR03R82K02	W FLMPRF 3W 0.82	A
R802	ERDS1FJ103P	CARBON 1/2W 10K	Δ
R802	ERDS1FPJ103P	CARBON 1/2W 10K	Δ
R804	ERF10ZJ331	W FLMPRF 10W 330	
R805	ERDS2TJ104T	CARBON 1/4W 100K	
R806	ERQ14AJ470P	FUSE 1/4W 47	Δ
R810	ERDS2TJ103	CARBON 1/4W 10K	
R813	ERDS2TJ104T	CARBON 1/4W 100K	
R818	VRESC2TK825T	CARBON 1/2W 8.2M	Δ
R818	VRESC2TK825T	CARBON 1/2W 8.2M	A
R865	ERDS2TJ222T	CARBON 1/4W 2.2K	

Ref. No.	Part No.	Part Name & Description	Remarks
R1003	VRESE2TJ334T	CARBON 1/2W 330K	
R1004	ERG2SJ333H	METAL OXIDE 2W 33K	
R1005	ERG1SJ560P	METAL OXIDE 1W 56	
R1006	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1007	ERDS2TJ101T	CARBON 1/4W 100	
R1008	ERDS2TJ392T	CARBON 1/4W 3.9K	
R1010	ERD25FJ100P	CARBON 1/4W 10	Δ
R1010	ERD25FPJ100P	CARBON 1/4W 10	Δ
R1010	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1011	ERD25FJ100P	CARBON 1/4W 10	Δ
R1011	ERD25FPJ100P	CARBON 1/4W 10	Δ
R1011	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1014	ERJ6GEYJ221V	MGF CHIP 1/10W 220	1
R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1016	ERJ8GEYJ562V	MGF CHIP 1/8W 5.6K	
R1017	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1018	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R1019	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R1020	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R1022	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1025	VRESE2TJ150T	CARBON 1/2W 15	
R1051	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R1052	ERDS2TJ153T	CARBON 1/4W 15K	
R1053	ERDS2TJ153T	CARBON 1/4W 15K	
R1057	ERDS2TJ331T	CARBON 1/4W 330	
R1058	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1076	VLQSH02R101K	COIL 100UH	
R2601	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2602	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2603	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2604	ERDS2TJ1R0T	CARBON 1/4W 1.0	
R2605	ERDS2TJ1R2T	CARBON 1/4W 1.2	
R2606	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R3001	ERDS2TJ101T	CARBON 1/4W 100	
R3006	ERDS2TJ101T	CARBON 1/4W 100	
R3016	ERJ6GEYJ121V	MGF CHIP 1/10W 120	
R3017	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R3024	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R3025	ERJ6GEYJ125V	MGF CHIP 1/10W 1.2M	
R3026	ERJ6GEYJ474V	MGF CHIP 1/10W 470K	
R3028	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R3029	ERJ6GEYJ151V	MGF CHIP 1/10W 150	
R3032	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R3036	ERJ6GEYG102V	MGF CHIP 1/10W 1K	
R3037	ERJ6GEYG102V	MGF CHIP 1/10W 1K	
R3038	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R3043	ERJ6GEYG392V	MGF CHIP 1/10W 3.9K (A,B,C,D,E)	

Ref. No.	Part No.	Part Name & Description	Remarks
R3044	ERJ6GEYG682V	MGF CHIP 1/10W 6.8K (A,B,C,D,E)	
R3045	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K (A,B,C,D,E)	
R3046	ERJ6GEYG682V	MGF CHIP 1/10W 6.8K (A,B,C,D,E)	
R3077	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3083	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R3084	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3086	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R3087	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K (A,B,C,D,E)	
R3087	ERJ6GEYJ684V	MGF CHIP 1/10W 680K (F,G)	
R3091	ERJ6GEYJ750V	MGF CHIP 1/10W 75	
R3301	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3302	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R3303	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R4001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4002	ERJ6GEYJ334V	MGF CHIP 1/10W 330K	
R4003	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R4004	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R4005	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R4006	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R4007	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R4008	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R4009	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4010	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4011	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4012	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4014	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4015	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R4018	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K (A,D,E)	
R4018	ERJ6GEYJ123V	MGF CHIP 1/10W 12K (B,C,F,G)	
R4021	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4051	ERJ6GEYJ393V	MGF CHIP 1/10W 39K	
R4052	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R4101	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R4102	ERJ6GEYJ184V	MGF CHIP 1/10W 180K	
R4103	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R4171	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R4172	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4173	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R4175	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4502	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4504	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R4509	ERDS2TJ100T	CARBON 1/4W 10	
R4521	ERQ1ABJP8R2S	FUSE 1W 8.2	Δ
R4523	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R4524	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R4591	ERDS2TJ681T	CARBON 1/4W 680	
R4592	ERDS2TJ681T	CARBON 1/4W 680	
R4593	ERDS2TJ681T	CARBON 1/4W 680	
R4594	ERDS2TJ681T	CARBON 1/4W 680	
R4701	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
L	1	I	

Ref. No.	Part No.	Part Name & Description	Remarks
R5301	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5304	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R5305	ERJ6GEYJ224V	MGF CHIP 1/10W 220K	
R5306	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5308	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5309	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R5311	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5313	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5314	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5315	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5316	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5317	ERDS2TJ101T	CARBON 1/4W 100	
R5324	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5325	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5401	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5402	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5403	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5405	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R5406	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5407	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5502	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5503	ERDS2TJ471T	CARBON 1/4W 470	
R5504	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
.1000-			
R5505	FR.I6FNF3241V	MGF CHIP 1/10W 3 24K	A
R5505	ERJ6ENF3241V	MGF CHIP 1/10W 3.24K	Δ
R5506	ERDS2TJ473T	CARBON 1/4W 47K	Δ
R5506 R5507	ERDS2TJ473T ERDS2TJ101T	CARBON 1/4W 47K CARBON 1/4W 100	<u>A</u>
R5506 R5507 R5508	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560	A
R5506 R5507 R5508 R5510	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100	<u>A</u>
R5506 R5507 R5508 R5510 R5511	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K	A
R5506 R5507 R5508 R5510 R5511 R5512	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150	Δ
R5506 R5507 R5508 R5510 R5511 R5512 R5513	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100	A
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K	A
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K	<u>A</u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 3.3K	Δ.
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 3.3K MGF CHIP 1/10W 22K	<u> </u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K	A
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 3.3K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 56K	<u>A</u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ23V ERJ6GEYJ563V ERJ6GEYJ102V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 122K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 56K MGF CHIP 1/10W 56K MGF CHIP 1/10W 56K	<u>A</u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ101V ERJ6GEYJ101V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 1.0K	<u>A</u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 26K MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100	<u>A</u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 100	<u> </u>
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001 R6002	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 1.0K	
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001 R6002 R6003	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ103V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 3.3K MGF CHIP 1/10W 1.0W	
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001 R6002 R6003 R6004	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 150 MGF CHIP 1/10W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 16K MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 10K MGF CHIP 1/10W 1K MGF CHIP 1/10W 1K	
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001 R6002 R6003 R6004 R6005	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 150 MGF CHIP 1/10W 150 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 3.3K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 26K MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 1K	
R5506 R5507 R5508 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5604 R5611 R5602 R5932 R5933 R6001 R6002 R6003 R6004 R6005 R6006	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ562V ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ1223V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 2.2K CARBON 1/4W 150 MGF CHIP 1/10W 100 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 22K MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 1K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K	
R5506 R5507 R5508 R5510 R5511 R5512 R5513 R5515 R5601 R5604 R5611 R5612 R5614 R5902 R5932 R5933 R6001 R6002 R6003	ERDS2TJ473T ERDS2TJ101T ERJ6GEYJ561V ERJ6GEYJ101V ERJ6GEYJ1222V ERDS2TJ151T ERJ6GEYJ101V ERDS2TJ332T ERJ6GEYJ332V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ223V ERJ6GEYJ102V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ101V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V	CARBON 1/4W 47K CARBON 1/4W 100 MGF CHIP 1/10W 560 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 150 MGF CHIP 1/10W 150 CARBON 1/4W 3.3K MGF CHIP 1/10W 5.6K MGF CHIP 1/10W 3.3K MGF CHIP 1/10W 22K MGF CHIP 1/10W 22K MGF CHIP 1/10W 26K MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 100 MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6016	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6017	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6018	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6019	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6020	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6021	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6022	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6023	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R6024	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6026	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6027	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6028	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6029	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6031	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6032	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6033	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6039	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6044	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6045	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6048	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6049	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6050	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6054	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6055	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6056	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6060	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6061	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6062	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6065	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6067	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6068	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6070	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6071	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6072	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6073	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6075	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6086	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6088	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6089	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6090	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R6091	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R6092	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6094	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (B,C,F,G)	
R6101	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6102	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6103	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6104	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6105	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6110	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6111	ERJ6GEYJ153V	MGF CHIP 1/10W 15K (F,G)	rtomarko
R6112	ERJ6GEYJ224V	MGF CHIP 1/10W 220K (F,G)	
R6113	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6114	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R6115	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6116	ERDS2TJ101T	CARBON 1/4W 100	
R6118	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6119	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6120	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6121	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6122	ERJ6GEYJ181V	MGF CHIP 1/10W 180	
R6123	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6124	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6125	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6126	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6127	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6130	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6131	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6132	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
R6133	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6134	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6135	ERJ6GEYJ475V	MGF CHIP 1/10W 4.7M	
R6136	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R6137	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6138	ERDS2TJ560T	CARBON 1/4W 56	
R6142	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R6143	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6144	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6146	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6147	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (F,G)	
R6148	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (A,B,C,D,E)	
R6150	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6160	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6161	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6162	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6163	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6169	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6170	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6171	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6201	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6202	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6203	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R6204	ERJ6GEYJ184V	MGF CHIP 1/10W 180K	
R6205	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R6206	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6207	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6208	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R6209	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6210	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R6211	ERJ6GEYJ243V	MGF CHIP 1/10W 24K	
		l	1

Ref. No.	Part No.	Part Name & Description	Remarks
R6301	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6302	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6303	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6304	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6305	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6306	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6307	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6316	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6401	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R7001	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7002	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7003	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7004	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7005	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R7006	ERJ6GEYJ271V	MGF CHIP 1/10W 270	
R7007	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C401	ECEA1HGE2R2	ELECTROLYTIC 50V 2.2UF	
C402	ECA1CM471B	ELECTROLYTIC 16V 470UF	
C408	ECA1HGE010KB	ELECTROLYTIC 50V 1UF	
C409	ECA1VM101B	ELECTROLYTIC 35V 100UF	
C413	ECQB1H104KF	POLYESTER 50V 0.1UF	
C414	ECA1EM102E	ELECTROLYTIC 25V 1000	
C418	ECA1VM221B	ELECTROLYTIC 35V 220UF	
C458	ECQB1H103KM	POLYESTER 50V 0.01UF	
C501	ECQB1H473KM3	POLYESTER 50V 0.047UF	
C510	ECKR2H681KB5	CERAMIC 500V 680PF	
C513	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C524	ECKW3D221KBP	CERAMIC 2KV 220PF	Δ
C524	ECKC3D221KBP	CERAMIC 2KV 220PF	<u> </u>
C531	ECA1HM3R3B	ELECTROLYTIC 50V 3.3UF	
C541	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C543	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C552	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C553	ECKR2H471KB5	CERAMIC 500V 470PF	
C554	ECWH20562JVB	POLYESTER 2000V 5600PF	Δ
C554	ECWH15H562J4	POLYESTER 1.5KV 5600UF	Δ
C556	ECWF2334JBB	POLYESTER 500V 0.33UF	⚠
C556	ECWF2334JSB	POLYESTER 500V 0.33UF	Δ
C556	LSCFM2334JM	POLYESTER 500V 0.33UF	⚠
C558	ECA1VM101B	ELECTROLYTIC 35V 100	
C560	ECA2EM100E	ELECTROLYTIC 250V 10UF	Δ
C561	ECA2CM2R2B	ELECTROLYTIC160V 2.2UF	
C563	ECEA180V33WE	ELECTROLYTIC 180V 33UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C571	ECA1HM3R3B	ELECTROLYTIC 50V 3.3UF	
C801	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C802	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C803		CERAMIC 250V 4700PF	
C804		CERAMIC 250V 4700PF	
C805	ECES2DU221EG	ELECTROLYTIC 200V 220UF	Δ
C806	ECA2DM100E	ELECTROLYTIC 200V 10UF	_
C807	VSQ1003-F	ARRESTER	Δ
C808	ECQU2A823MLA	POLYESTER 250V 0.082UF	<u> </u>
C808	LSCFQ2A823MC	POLYESTER 250V 0.082UF	A
C809	ECKATS221MB	CERAMIC 125V 220PF	Δ
C809	ECKETS221MB	CERAMIC 125V 220PF	Δ
C809	VCKSEJD221KW	CERAMIC 125V 220PF	<u> </u>
C809	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C809	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C809	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C810	ECKATS221MB	CERAMIC 125V 220PF	Δ
C810	ECKETS221MB	CERAMIC 125V 220PF	Δ
C810	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C810	VCKSTLG221KW	CERAMIC 250V 220PF	⚠
C810	VCKSUJD221KW	CERAMIC 125V 220PF	A
C810	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C811	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C811	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C811	VCKSUKD332MX	CERAMIC 125V 3300PF	Δ
C811	VCKSUMD332MX	CERAMIC 125V 3300PF	Δ
C811	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C812	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C812	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C812	VCKSUKD332MX	CERAMIC 125V 3300PF	Δ
C812	VCKSUMD332MX	CERAMIC 125V 3300PF	A

Ref. No.	Part No.	Part Name & Description	Remarks
C812	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1001	ECKATS103MF	CERAMIC 250V 0.01UF	<u>A</u>
C1001	ECKETS103MF	CERAMIC 125V 0.01UF	A
C1002	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1002	ECKDNB332ME8	CERAMIC 125V 3300PF	Δ
C1002	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1003	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1003	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1003	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1003	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1004	ECEA2DU121YE	ELECTROLYTIC 200V 120UF	Δ
C1004	VCESAN2D121E	ELECTROLYTIC 200V 120UF	Δ
C1004	VCESR2D121XE	ELECTROLYTIC 200V 120UF	Δ
C1005	ECA2DHG4R7B	ELECTROLYTIC 200V 4.7UF	
C1006	ECKR2H221KB5	CERAMIC 500V 220PF	
C1007	ECUV1C224KBN	C CHIP 16V 0.22UF	
C1009		CERAMIC 25V 0.018UF	
C1010	ECUV1H101JCN	C CHIP 50V 100PF	
C1011	ECA1HHG4R7B	ELECTROLYTIC 50V 4.7UF	
C1012	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1012	ECA1EM331B	ELECTROLYTIC 25V 330UF	
C1014	ECA1HHG4R7I	ELECTROLYTIC 50V 4.7UF	
C1014	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1017	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
-	ECUV1E104KBN		
C1018		C CHIP 25V 0.1UF	
C1021	ECEA1HKA010	ELECTROLYTIC 50V 1UF	0
C1025	ECKETS221MB	CERAMIC 125V 220PF	<u> </u>
C1025	ECKATS221MB	CERAMIC 125V 220PF	<u> </u>
C1025	VCKSTLG221KW	CERAMIC 250V 220PF	<u> </u>
C1025		CERAMIC 125V 220PF	<u> </u>
C1025	VCKSU5D221KW	CERAMIC 125V 220PF	<u> </u>
C1029	ECUV1H101JCN	C CHIP 50V 100PF	
C1030	VCYSBRE183KX	CERAMIC 25V 0.018UF	
C1032	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C1051	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1052	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1058	ECEA0JEE101	ELECTROLYTIC 6.3V 100UF	
C1059	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C1083	ECKATS221MB	CERAMIC 125V 220PF	Δ
C1083	ECKETS221MB	CERAMIC 125V 220PF	Δ
C1083	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSELD221KW	CERAMIC 125V 220PF	A
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Ref. No.	Part No.	Part Name & Description	Remarks
C1083	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C1083	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C1083	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C1084	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1084	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1084	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1084	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C2601	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2602	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2603	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2604	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2605	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2606	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2607	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2608	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C2609	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C2610	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C2611	ECUV1H103KBN	C CHIP 50V 0.01UF	
C2612	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C3003	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3004	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3006	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3008	ECUV1H181JCN	C CHIP 50V 180PF	
C3009	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C3010	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3013	ECUV1C224ZFN	C CHIP 16V 0.22UF	
C3015	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3016	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C3019	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3020	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C3021	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3022	ECUV1C224ZFN	C CHIP 16V 0.22UF	
C3023	ECUV1H680JCN	C CHIP 50V 68PF	
C3024	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3025	ECUV1E104KBN	C CHIP 25V 0.1UF	
C3026	ECUV1H822KBN	C CHIP 50V 8200PF	
C3027	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3030	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3031	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3032	ECUV1C474ZFN	C CHIP 16V 0.47UF	
C3034	ECUV1H181JCN	C CHIP 50V 180PF	
C3035	ECUV1H330JCN	C CHIP 50V 33PF	
C3036	ECUV1E104ZFN	C CHIP 25V 0.1UF	

C3038 ECEA1CKA100 ELECTROLYTIC 16V 10UF C3041 ECUV1H103ZFN C CHIP 50V 0.01UF C3043 ECUV1H32KRN C CHIP 50V 0.01UF C3044 ECUV1H32KRN C CHIP 50V 0.01UF C3045 ECEA1HKAR47 ELECTROLYTIC 50V 0.47UF C3046 ECEA1HKAR47 ELECTROLYTIC 50V 0.47UF C3046 ECEA1HKA2R2 ELECTROLYTIC 50V 0.47UF C3047 ECEA0JKA101 ELECTROLYTIC 50V 2.2UF C3047 ECEA0JKA101 ELECTROLYTIC 50V 2.2UF C3058 ECUV1H03ZFN C CHIP 50V 0.01UF C3059 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C3050 ECUV1H03ZFN C CHIP 25V 0.1UF C3056 ECUV1E104ZFN C CHIP 25V 0.1UF C3057 ECUV1E104ZFN C CHIP 25V 0.1UF C3058 ECUV1H03ZFN C CHIP 25V 0.1UF C3059 ECUV1H03ZFN C CHIP 25V 0.1UF C3050 ECEA1CKA100 ELECTROLYTIC 16V 10UF C3081 ERJ6GEY0R00V MGF CHIP 1/10W 0 C3082 ECUV1H33XKBN C CHIP 50V 3300PF C3231 ECEA1HKA010 ELECTROLYTIC 50V 1UF C3232 ECUV1H103XFN C CHIP 50V 0.01UF C3233 ECUV1H103XFN C CHIP 50V 0.01UF C3234 ECEA0JKA470 ELECTROLYTIC 50X 47UF C3235 ECUV1H103XFN C CHIP 50V 0.01UF C3236 ECUV1H103XFN C CHIP 50V 0.01UF C3237 ECUV1H103XFN C CHIP 50V 0.01UF C3238 ECUV1H103XFN C CHIP 50V 0.01UF C3239 ECUV1H103XFN C CHIP 50V 0.01UF C3230 ECUV1H103XFN C CHIP 50V 0.01UF C3231 ECEA1HKA012 ELECTROLYTIC 50X 2.2UF C4001 ECUV1C224ZFN C CHIP 50V 0.01UF C3230 ECEA1HKS010 ELECTROLYTIC 50V 2.2UF C4001 ECUV1C24ZFN C CHIP 50V 0.01UF C3002 ECEA1HKS010 ELECTROLYTIC 50X 2.2UF C4004 ECUV1H103KBN C CHIP 50V 2700PF C4005 ECEA0JKA2R2 ELECTROLYTIC 50X 1UF C4006 ECEA0JKA220 ELECTROLYTIC 50X 1UF C4007 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF C4008 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF C4009 ECEA1CKA100 ELECTROLYTIC 6.3V 22UF C4001 ECUV1H103KBN C CHIP 50V 0.01UF C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4013 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4015 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4016 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4017 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4018 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4019 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4010 ECUV1H03KBN C CHIP 50V 0.01UF C4010 ECUV1H03KBN C CHIP 50V 0.01UF C4010 ECUV1H03KBN C CHIP 50V 0.01UF	Ref. No.	Part No.	Part Name & Description	Remarks
C3043 ECUV1H392KBN C CHIP 50V 3900PF C3044 ECUV1H103ZFN C CHIP 50V 0.01UF C3045 ECEA1HKAR47 ELECTROLYTIC 50V 0.47UF C3046 ECEA1HKAR47 ELECTROLYTIC 50V 0.2UF C3047 ECEA0JKA101 ELECTROLYTIC 50V 2.2UF C3048 ECUV1E104ZFN C CHIP 25V 0.1UF C3050 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C3053 ECUV1H103ZFN C CHIP 25V 0.1UF C3055 ECUV1E104ZFN C CHIP 25V 0.1UF C3056 ECUV1E104ZFN C CHIP 25V 0.1UF C3057 ECUV1H03ZFN C CHIP 25V 0.1UF C3058 ECUV1H03ZFN C CHIP 50V 0.01UF C3081 ERJ6GEY0R00V MGF CHIP 1/10W 0 C3082 ECUV1H32KBN C CHIP 50V 3300PF C3231 ECEA1HKA010 ELECTROLYTIC 50V 1UF C3232 ECUV1H03ZFN C CHIP 50V 0.01UF C3233 ECUV1H03ZFN C CHIP 50V 0.01UF C3234 ECEA0JKA470 ELECTROLYTIC 60X 47UF C3235 ECUV1H03ZFN C CHIP 50V 0.01UF C3236 ECUV1H03ZFN C CHIP 50V 0.01UF C3237 ECUV1H03ZFN C CHIP 50V 0.01UF C3300 ECUV1H03ZFN C CHIP 50V 0.01UF C3301 ECUV1H03ZFN C CHIP 50V 0.01UF C3302 ECEA1HKA010 ELECTROLYTIC 50V 1UF C3237 ECUV1H03ZFN C CHIP 50V 0.01UF C3301 ECUV1H03ZFN C CHIP 50V 0.01UF C3002 ECEA1HKS010 ELECTROLYTIC 50V 2.2UF C4001 ECUV1C224ZFN C CHIP 50V 0.01UF C4003 ECUV1H03KBN C CHIP 50V 0.01UF C4004 ECUV1H03KBN C CHIP 50V 0.01UF C4005 ECEA0JKA220 ELECTROLYTIC 5.3V 22UF C4006 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF C4007 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF C4008 ECEA0JKA470 ELECTROLYTIC 6.3V 22UF C4009 ECEA1CKA100 ELECTROLYTIC 6.3V 47UF C4001 ECUV1H03KBN C CHIP 50V 0.03UF C4011 ECUV1H03KBN C CHIP 50V 0.03UF C4012 ECEA1HKA010 ELECTROLYTIC 6.3V 47UF C4013 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4015 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4016 ECUV1H03KBN C CHIP 50V 0.03UF C4017 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4018 ECUV1H03KBN C CHIP 50V 0.01UF C4019 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4011 ECUV1H03KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECUV1H03KBN C CHIP 50V 0.01UF			•	
C3044 ECUV1H103ZFN C CHIP 50V 0.01UF C3045 ECEA1HKAR47 ELECTROLYTIC 50V 0.47UF C3046 ECEA1HKAR47 ELECTROLYTIC 50V 0.47UF C3046 ECEA1HKAR47 ELECTROLYTIC 50V 2.2UF C3047 ECEADJKA101 ELECTROLYTIC 5.3V 100UF C3048 ECUV1E104ZFN C CHIP 52V 0.1UF C3050 ECEA1HKA2R2 ELECTROLYTIC 5.3V 1.0UF C3051 ECUV1H03ZFN C CHIP 50V 0.01UF C3055 ECUV1E104ZFN C CHIP 50V 0.01UF C3056 ECUV1E104ZFN C CHIP 25V 0.1UF C3057 ECUV1E104ZFN C CHIP 25V 0.1UF C3058 ECUV1H03ZFN C CHIP 25V 0.1UF C3058 ECUV1H03ZFN C CHIP 50V 0.01UF C3060 ECEA1CKA100 ELECTROLYTIC 16V 10UF C3081 ERJ6GEY0R00V MGF CHIP 1/10W 0 C3082 ECUV1H33ZKBN C CHIP 50V 3300PF C3231 ECEA1HKA010 ELECTROLYTIC 50V 1UF C3232 ECUV1H102KBN C CHIP 50V 0.01UF C3233 ECUV1H103ZFN C CHIP 50V 0.01UF C3234 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C3235 ECUV1H103ZFN C CHIP 50V 0.01UF C3237 ECUV1H03ZFN C CHIP 50V 0.01UF C3301 ECUV1H03ZFN C CHIP 50V 0.01UF C3302 ECEA1HKA2R2 C CHIP 50V 0.01UF C3303 ECUV1H03ZFN C CHIP 50V 0.01UF C3301 ECUV1H03ZFN C CHIP 50V 0.01UF C3302 ECEA1HKA2R2 ELECTROLYTIC 50V 1UF C3400 ECUV1H03ZFN C CHIP 50V 0.01UF C4001 ECUV1C224ZFN C CHIP 50V 0.01UF C4002 ECEA1HKS010 ELECTROLYTIC 50V 2.2UF C4004 ECUV1H103KBN C CHIP 50V 0.01UF C4005 ECEA0JK8220 ELECTROLYTIC 50V 2.2UF C4006 ECUV1H103KBN C CHIP 50V 0.01UF C4007 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF C4008 ECEA0JKA470 ELECTROLYTIC 6.3V 22UF C4009 ECEA1HKA010 ELECTROLYTIC 6.3V 47UF C4000 ECEA1CKA100 ELECTROLYTIC 16V 10UF C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 6.3V 47UF C4013 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4014 ECEA1HKA010 ELECTROLYTIC 6.3V 47UF C4015 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4016 ECUV1H103KBN C CHIP 50V 0.01UF C4017 ECEA0JKA3CN ELECTROLYTIC 50V 1UF C4018 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4019 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4010 ECUV1H03KBN C CHIP 50V 0.01UF C4011 ECUV1H03KBN C CHIP 50V 0.01UF C4012 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4013 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4010 ECUV1H03KBN C CHIP 50V 0.01UF	C3041	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3045 ECEA1HKAR47 C3046 ECEA1HKAR47 C3046 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C3047 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C3048 ECUV1E104ZFN C CHIP 25V 0.1UF C3050 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C3053 ECUV1H103ZFN C CHIP 25V 0.1UF C3056 ECUV1E104ZFN C CHIP 25V 0.1UF C3057 ECUV1E104ZFN C CHIP 25V 0.1UF C3058 ECUV1E104ZFN C CHIP 25V 0.1UF C3058 ECUV1E104ZFN C CHIP 25V 0.1UF C3058 ECUV1H103ZFN C CHIP 50V 0.01UF C3058 ECUV1H103ZFN C CHIP 50V 0.01UF C3060 ECEA1CKA100 ELECTROLYTIC 16V 10UF C3081 ERJ6GEY0R00V MGF CHIP 1/10W 0 C3082 ECUV1H32KBN C CHIP 50V 3000FF C3231 ECEA1HKA010 ELECTROLYTIC 50V 1UF C3232 ECUV1H102KBN C CHIP 50V 1000FF C3233 ECUV1H102KBN C CHIP 50V 0.01UF C3234 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C3235 ECUV1H103ZFN C CHIP 50V 0.01UF C3237 ECUV1H103ZFN C CHIP 50V 0.01UF C3230 ECUV1H103ZFN C CHIP 50V 0.01UF C3301 ECUV1H103ZFN C CHIP 50V 0.01UF C3302 ECEA1HKA0R2 ELECTROLYTIC 50V 2.2UF C4001 ECUV1C224ZFN C CHIP 50V 0.01UF C30302 ECEA1HKARR2 ELECTROLYTIC 50V 2.2UF C4003 ECUV1H27ZKBN C CHIP 50V 0.01UF C4004 ECUV1C24ZFN C CHIP 50V 0.01UF C4005 ECEA0JKS200 ELECTROLYTIC 6.3V 22UF C4006 ECEV1H103KBN C CHIP 50V 1000PF C4007 ECEA0JKA20 ELECTROLYTIC 6.3V 22UF C4008 ECEA0JKA20 ELECTROLYTIC 6.3V 22UF C4009 ECEA1CKA100 ELECTROLYTIC 6.3V 22UF C4000 ECUV1H103KBN C CHIP 50V 1000PF C4001 ECUV1H103KBN C CHIP 50V 1000PF C4002 ECEA1HKA010 ELECTROLYTIC 6.3V 22UF C4003 ECEA1CKA100 ELECTROLYTIC 6.3V 22UF C4004 ECUV1H103KBN C CHIP 50V 1000PF C4005 ECEA0JKA20 ELECTROLYTIC 6.3V 47UF C4006 ECEA1HKA010 ELECTROLYTIC 6.3V 47UF C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4015 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4016 ECUV1H103KBN C CHIP 50V 0.03UF C4017 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4019 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4010 ECUV1H103KBN C CHIP 50V 0.01UF C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECUV1H103KBN C CHIP 50V 0.01UF	C3043	ECUV1H392KBN	C CHIP 50V 3900PF	
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C4010 ECUV1E333KBN C CHIP 25V 0.033UF C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECEA0JKA470 ELECTROLYTIC 50V 1UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4011 ECUV1H103KBN C CHIP 50V 0.01UF C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4009	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4012 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4013 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4010	ECUV1E333KBN	C CHIP 25V 0.033UF	
C4013 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4011	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4014 ECEA1HKA010 ELECTROLYTIC 50V 1UF C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4012	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4018 ECUV1H103KBN C CHIP 50V 0.01UF C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4013	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4020 ECEA1HKS010 ELECTROLYTIC 50V 1UF C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4014	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4051 ECUV1E333KBN C CHIP 25V 0.033UF C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4018	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4102 ECQB1562JF3 POLYESTER 100V 5600PF C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4020	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C4103 ECUV1H103KBN C CHIP 50V 0.01UF C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4051	ECUV1E333KBN	C CHIP 25V 0.033UF	
C4104 ECUV1H103KBN C CHIP 50V 0.01UF C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4102	ECQB1562JF3	POLYESTER 100V 5600PF	
C4105 ECEA1CKA220 ELECTROLYTIC 16V 22UF C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4103	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4171 ECEA1HKA010 ELECTROLYTIC 50V 1UF	C4104	ECUV1H103KBN	C CHIP 50V 0.01UF	
	C4105	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
CAEDS ECENTORATOR ELECTROLIVEICAEVADUE	C4171	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4502 ECEATORATOU ELECTROLITIC 18V 10UF	C4502	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4504 ECEA1EKA4R7 ELECTROLYTIC 25V 4.7UF	C4504	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4506 ECEA1CKA470 ELECTROLYTIC 16V 47UF	C4506	ECEA1CKA470	ELECTROLYTIC 16V 47UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C4508	ECA1CM221B	ELECTROLYTIC 16V 220UF	
C4509	ECUV1E473KBN	C CHIP 25V 0.047UF	
C4521	ECA1EM102B	ELECTROLYTIC 25V 1000UF	
C4524	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5301	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5302	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C5303	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C5305	ECEA1HKAR33	ELECTROLYTIC 50V 0.33UF	
C5306	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5307	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C5308	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C5401	VCUSTBC224KB	C CHIP 16V 0.22UF	
C5402	ECUV1H222KBN	C CHIP 50V 2200PF	
C5403	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C5501	ECUV1E183KBN	C CHIP 25V 0.018UF	
C5502		C CHIP 50V 680PF	
C5505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5506	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5508	ECUV1H221JSN	C CHIP 50V 220PF	
C5510	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5511		C CHIP 25V 0.033UF	
C5516		C CHIP 25V 0.033UF	
C5601	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5602		C CHIP 25V 0.1UF	
C5603	ECUV1H150JCN	C CHIP 50V 15PF	
C5604	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5605	ECUV1E153KBN	C CHIP 25V 0.015UF	
C5902	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5903	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5904	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5905	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C5906	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5932	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C6001	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6002	ECUV1H080CCN		
C6003	ECUV1H150JCN	C CHIP 50V 15PF	
C6004		C CHIP 25V 0.1UF	
C6006	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6009	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C6011		C CHIP 50V 0.1UF	
C6013		C CHIP 50V 100PF	
C6017		C CHIP 50V 100PF	
C6018		C CHIP 50V 100PF	
C6020		C CHIP 25V 0.1UF	
C6021	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6023		C CHIP 50V 0.01UF	
C6025	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C6029	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C6040		C CHIP 50V 1000PF	

Ref. No.	Part No.	Part Name & Description	Remarks
C6041	ECUV1H102KBN	C CHIP 50V 1000PF	
C6044	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C6203	ECUV1H332KBN	C CHIP 50V 3300PF	
C6204	ECUV1H103KBN	C CHIP 50V 0.01UF	
C6205	ECUV1H330JCN	C CHIP 50V 33PF	
C6207	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C6208	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C6209	ECUV1H102KBN	C CHIP 50V 1000PF	
C6211	ECUV1E104KBN	C CHIP 25V 0.1UF	
C6212	ECUV1E104KBN	C CHIP 25V 0.1UF	
C6213	ECEA0JKS331I	ELECTROLYTIC 6.3V 330UF	
C6214	ECEA0JKS220	ELECTROLYTIC 6.3V 22UF	
C6215	ECUV1H272KBN	C CHIP 50V 2700PF	
C6216	ECUV1H103KBN	C CHIP 50V 0.01UF	
C6220	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C6221	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6302	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C6401	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C6402	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6403	ECUV1A105KBN	C CHIP 10V 1UF	
C6404	ECUV1H121JCN	C CHIP 50V 120PF	
C6406	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C6408	ECUV1H222KBN	C CHIP 50V 2200PF	
C6410	ECUV1H103KBN	C CHIP 50V 0.01UF	
C7002	ECUV1H102KBN	C CHIP 50V 1000PF	
C7006	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C7007	ECUV1H102KBN	C CHIP 50V 1000PF	
C7008	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C7010	ECEA1CKA100	ELECTROLYTIC 16V 10UF	

FILTERS

Ref. No.	Part No.	Part Name & Description	Remarks
FL4051	VLFS0014	FILTER	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L552	TSC925V	COIL	
L553	VLQSW07D220M	COIL 22UH	
L803	ELF18D650C	COIL 8.2MH	Δ
L1001	ELF15N005A	LINE FILTER 0.5A 18MH	Δ
L1001	VLQS0166	LINE FILTER 0.5A 18MH	Δ
L1001	VLQS0167	LINE FILTER 0.5A 18MH	Δ
L1001	VLQS0287	LINE FILTER 0.5A 18MH	Δ
L1002	VLQSAB7D220K	COIL 22UH	
L1003	VLQSAB7D100K	COIL 10UH	
L1006	VLPS0083	FILTER	
L3001	VLQSH02R390K	COIL 39UH	
L3002	ELESN101KA	COIL 100UH	
L3005	VLQSH02R330K	COIL 33UH	
L3010	ELESN470KA	COIL 47UH	
L3231	ELESN221KA	COIL 220UH	
L4001	VLQSU06R153K	COIL 15MH	
L4002	ELESN101KA	COIL 100UH	
L4004	VLQSH02R390K	COIL 39UH	
L4101	ELESN471KA	COIL 470UH	
L5901	ELESN101KA	COIL 100UH	
L6201	ELEXT101KE04	COIL 100UH	
L6401	ELEXT101KE04	COIL 100UH	
L6402	VLPS0111	CHIP BEAD INDUCTOR	
L6403	VLPS0111	CHIP BEAD INDUCTOR	
L6404	VLPS0111	CHIP BEAD INDUCTOR	
L6405	VLPS0111	CHIP BEAD INDUCTOR	
L7002	ELESN100KA	COIL 10UH	

CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks
X5501	CSB503F38	CRYSTAL OSCILLATOR	
X5601	VSXS0190-TB	CRYSTAL OSCILLATOR	
X6001	VSXS0784	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P801	VEKS5809	CONNECTOR CABLE W/OUT PLUG, 200V	
P803	VJPS0303	CONNECTOR 2P	
P3001	LSJP0085	CONNECTOR 10P (A,B,C,D,E)	
P3001	VJPS0882	CONNECTOR 12P (F,G)	
P4001	VJSS0888	FE CONNECTOR 2P	
P4591	VJPS0268	CONNECTOR 2P	
P6001	VJPS0275	CONNECTOR 5P	
P6201	LSJP0089	CONNECTOR 12P	
P6202	LSJP0088	CONNECTOR 12P	

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW6001	LSSH0002	LEAF SWITCH-SAFETY TAB	
SW6002	LSSS0008	MODE SWITCH	
SW6301	EVQ21405R	PUSH SWITCH	
SW6302	EVQ21405R	PUSH SWITCH	
SW6303	EVQ21405R	PUSH SWITCH	
SW6304	EVQ21405R	PUSH SWITCH	
SW6305	EVQ21405R	PUSH SWITCH	
SW6306	EVQ21405R	PUSH SWITCH	
SW6307	EVQ21405R	PUSH SWITCH	
SW6308	EVQ21405R	PUSH SWITCH	
SW6309	EVQ21405R	PUSH SWITCH	
SW6310	EVQ21405R	PUSH SWITCH	
SW6311	EVQ21405R	PUSH SWITCH	

FUSE & PROTECTOR

Ref. No.	Part No.	Part Name & Description	Remarks
F801	XBA1C40NU100	FUSE 125V 4A	Δ
F801	VSFS0003A40	FUSE 4A	Δ
F1001	VSFS0003A16	FUSE 125V 1.6A	A
F1001	VSFS0032B16	FUSE 125V 1.6A	Δ
F1001	XBA1C16NU100	FUSE 125V 1.6A	Δ
PR1001	UNH000600A	IC PROTECTOR 1.5A	Δ
PR1001	ICP-N38-TP1	IC PROTECTOR 1.5A	Δ
PR1001	LSSF009A25E	IC PROTECTOR 1.5A	Δ
PR1002	UNH000600A	IC PROTECTOR 1.5A	Δ
PR1002	ICP-N38-TP1	IC PROTECTOR 1.5A	Δ
PR1002	LSSF009A25E	IC PROTECTOR 1.5A	Δ

RELAY

Ref. No.	Part No.	Part Name & Description	Remarks
RL801	TSEH0019	RELAY	Δ
RL801	LSSY0004	RELAY	Δ
RL801	TSEH0005	RELAY,120V	Δ
RL801	TSEH1860-1	RELAY	Δ
RL801	TSEH8007	RELAY,120V	Δ

TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remarks
T501	ETH09K6AZ	TRANSFORMER	
T502	ETE16Z37AY	TRANSFORMER	Δ
T551	KFT2AB338F	TRANSFORMER	Δ
T1001	ETS28AD2J3NC	SW TRANSFORMER	Δ
T1001	LSTP0105	SW TRANSFORMER	Δ
T1001	VTPS0041-1	SW TRANSFORMER	Δ
T1001	VTPS0042-1	SW TRANSFORMER	Δ
T4101	VLTS0367	TRANSFORMER	

JACKS

Ref. No.	Part No.	Part Name & Description	Remarks
JK4591	LJP28016A	FRONT AUDIO/VIDEO JACK SOCKET	
JK4701	LJP68005A	EARPHONE JACK SOCKET	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
244	TUX77809	CLAMPER	
458	XTV3+8J	TAPPING SCREW,STEEL	
483	XYN3+F10S	SCREW W/WASHER,STEEL	
484	XTW3+10J	TAPPING SCREW,STEEL	
488	XYN3+F6S	SCREW W/WASHER,STEEL	
711	PNA4611M00HC	INFRARED RECEIVER UNIT	
743	ENG36706G	TUNER,UHF/VHF NR (A,D,E)	
743	ENG36709G	TUNER,UHF/VHF NR (B,C,F,G)	
751	LML69001A	ANODE LEAD CLAMPER	
758	TUC77616	HEAT SINK	
766	TUC76677-1	HEAT SINK	
771	EYF52BC	FUSE HOLDER	

12.3.2. TV/VCR MAIN C.B.A.

(Model: H, I, J, K, L)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	I
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC451	LA7837	IC, LINEAR	
IC501	TLP621GR	IC, LINEAR	A
IC501	0N3131-R	IC, LINEAR	A
IC501	0N3131-R.KT	IC, LINEAR	Δ
IC801	STR30130	IC, LINEAR	Δ
IC1001	0N3131-R.KT	IC, LINEAR	Δ
IC2601	AN3808K	IC, LINEAR	
IC3001	AN3479FBP-A	IC, LINEAR	
IC3201	MN3885S	IC, CCD	E.S.D.
IC4501	LA4285	IC, LINEAR	
IC4511	LA4285	IC, LINEAR (L)	
IC5301	AN5368FB	IC, LINEAR	
IC6001	MN101D07HCA	IC, 8BIT MICROCONTROLLER	E.S.D.
IC6002	RPI-303	PHOTO INTERRUPUTER	
IC6003	RPI-303	PHOTO INTERRUPUTER	
IC6004	BR24C01AFWE2	IC, 1K EEP ROM	E.S.D.
IC6004	AT24C01A10SI	IC, 1K EEP ROM	E.S.D.
IC6004	KS24C011IS	IC, 1K EEP ROM	E.S.D.
IC6004	M24C01-MN6	IC, 1K EEP ROM	E.S.D.
IC6005	PST3147NR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	RN5VS47CA-TR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	XC61CC4702MR	IC, CMOS STANDARD LOGIC	E.S.D.

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q431	2SA733(TQ)	TRANSISTOR SI PNP	
Q431	2SA1175	TRANSISTOR SI PNP	
Q431	2SA1175(TH)	TRANSISTOR SI PNP	
Q501	2SC2482KT6	TRANSISTOR SI NPN	
Q502	2SC945A(TQ)	TRANSISTOR SI NPN	
Q502	2SC2785(TH)	TRANSISTOR SI NPN	
Q502	2SC2785(TJ)	TRANSISTOR SI NPN	
Q541	2SB709A	TRANSISTOR SI PNP CHIP	
Q541	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q542	2SD601A	TRANSISTOR SI NPN CHIP	
Q542	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q551	2SD2578(RG)	TRANSISTOR SI NPN	Δ
Q571	2SD601A	TRANSISTOR SI NPN CHIP	
Q571	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q581	2SA1321TPE6	TRANSISTOR SI NPN	
Q581	2SA1767(Q)	TRANSISTOR SI NPN	
Q581	2SB1221(Q)	TRANSISTOR SI NPN	
Q801	2SC945A(TKA)	TRANSISTOR SI NPN	
Q801	2SC1684(Q,R,S)	TRANSISTOR SI NPN	
Q801	2SC2785(TE)	TRANSISTOR SI NPN	
Q801	2SC2785(TF)	TRANSISTOR SI NPN	
Q801	2SC2785(TH)	TRANSISTOR SI NPN	

Ref. No.	Part No.	Part Name & Description	Remarks
Q801	2SC2785(TJ)	TRANSISTOR SI NPN	
Q801	2SC2785(TK)	TRANSISTOR SI NPN	
Q801	2SC3311A(Q,R,S)	TRANSISTOR SI NPN	
Q801	2SC945A(TPA)	TRANSISTOR SI NPN	
Q801	2SC945A(TQA)	TRANSISTOR SI NPN	
Q1001	2SC4533LP.KT	TRANSISTOR SI NPN	<u>A</u>
Q1001	2SC5130LF608	TRANSISTOR SI NPN	Δ
Q1002	2SD2259	TRANSISTOR SI NPN	
Q1002	2SD1458	TRANSISTOR SI NPN	
Q1003	2SD1819ARS	TRANSISTOR SI NPN CHIP	
Q1003	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q1004	2SB709ARS	TRANSISTOR SI PNP CHIP	
Q1004	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q1005	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q1005	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q1051	2SD2159(T)	TRANSISTOR SI NPN	
Q1051	2SD1581(T)	TRANSISTOR SI NPN	
Q1052	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q1052	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q1053	2SD235800A	TRANSISTOR SI NPN CHIP	
Q1053	2SD2097TV2R	TRANSISTOR SI NPN CHIP	
Q1070	2SA733(TK)	TRANSISTOR SI PNP	
Q1070	2SA1175(TE)	TRANSISTOR SI PNP	
Q1070	2SA1175(TF)	TRANSISTOR SI PNP	
Q1070	2SA1175(TH)	TRANSISTOR SI PNP	
Q1070	2SA1175(TJ)	TRANSISTOR SI PNP	
Q1070	2SA1175(TK)	TRANSISTOR SI PNP	
Q1070	` '	TRANSISTOR SI PNP	
Q1070	2SA564A(Q,R,S)	TRANSISTOR SI PNP	
Q1070	2SA733(TP)	TRANSISTOR SI PNP	
Q1070	2SA733(TQ)	TRANSISTOR SI PNP	
Q1071	2SD601A	TRANSISTOR SI NPN CHIP	
Q1071	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q3001	2SB709A	TRANSISTOR SI PNP CHIP	
Q3001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q3002	2SD601A	TRANSISTOR SI NPN CHIP	
Q3002	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q3301	2SD601A	TRANSISTOR SI NPN CHIP	
Q3301	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q4001	2SB709A	TRANSISTOR SI PNP CHIP	
Q4001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q4001	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q4002 Q4003	2SD601(RS)	TRANSISTOR SI NPN CHIP	
Q4101	2SD601(NS)	TRANSISTOR SI NPN CHIP	
Q4101	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q4171	2SD601A	TRANSISTOR SI NPN CHIP	
Q4171	2SC2412K146R	TRANSISTOR SI NPN CHIP	
		TRANSISTOR SI NPN CHIP	
Q5301	2SD601A		
Q5301	2SC2412K146R	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q5901	2SD2259	TRANSISTOR SI NPN	
Q5901	2SD1858-RTV2	TRANSISTOR SI NPN	
Q6001	2SB709A	TRANSISTOR SI PNP CHIP	
Q6001	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6002	2SD601A	TRANSISTOR SI NPN CHIP	
Q6002	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6003	2SD601A	TRANSISTOR SI NPN CHIP	
Q6003	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6004	2SB709A	TRANSISTOR SI PNP CHIP	
Q6004	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6005	2SB709A	TRANSISTOR SI PNP CHIP	
Q6005	2SA1037K146R	TRANSISTOR SI PNP CHIP	
Q6006	2SD601A	TRANSISTOR SI NPN CHIP	
Q6006	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q6009	VEKS5707	PHOTO SENSOR UNIT	
Q6010	VEKS5707	PHOTO SENSOR UNIT	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D401	ERB12-01V	DIODE SI	
D401	ERB12-01	DIODE SI	
D401	ERB12-01RKV1	DIODE SI	
D502	MA165	DIODE SI	
D502	1SS119	DIODE SI	
D502	1SS133T	DIODE SI	
D503	ERB43-04V	DIODE SI	
D503	ES1V	DIODE SI	
D504	MA4047-M	DIODE ZENER 4.7V	
D504	MA4047-H	DIODE ZENER 4.7V	
D504	RD4.7ESAB	DIODE ZENER 4.7V	
D504	RD4.7ESAB2	DIODE ZENER 4.7V	
D504	04AZ4.7ZTPA7	DIODE ZENER 4.7V	
D505	MA165	DIODE SI	
D505	1SS119	DIODE SI	
D505	1SS133T	DIODE SI	
D506	MA165	DIODE SI	
D506	1SS119	DIODE SI	
D506	1SS133T	DIODE SI	
D541	MA165	DIODE SI	
D541	1SS119	DIODE SI	
D541	1SS133T	DIODE SI	
D542	MA4180-M	DIODE ZENER 18V	
D543	MA165	DIODE SI	
D543	1SS119	DIODE SI	
D543	1SS133T	DIODE SI	
D544	ERB43-04V	DIODE SI	
D544	ES1V	DIODE SI	
D553	ERB43-04V	DIODE SI	
D553	ES1V	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D554	4148-TA	DIODE SI	
D554	MA167	DIODE SI	
D556	MA185	DIODE SI	
D558	ERB43-04V	DIODE SI	
D558	ES1V	DIODE SI	
D560	ERB44-04V	DIODE SI	
D591	TRPF5B0M050K	THERMISTOR	Δ
D591	VRPSKF5JM050	THERMISTOR	Δ
D801	ERC13-08V	DIODE SI	A
D801	EM02BMV	DIODE SI	A
D802	ERC13-08V	DIODE SI	A
D802	EM02BMV	DIODE SI	A
D803	ERC13-08V	DIODE SI	Δ
D803	EM02BMV	DIODE SI	Δ
D804	ERC13-08V	DIODE SI	Δ
D804	EM02BMV	DIODE SI	Δ
D805	4148-TA	DIODE SI	
D881	ERZV10V361CS	SURGE ABSORBER	Δ
D882	ERZV10V361CS	SURGE ABSORBER	A
D1001	DB105G	DIODE SI	Δ
D1001	S1NB60-4101	DIODE SI	Δ
D1001	S1WBA60	DIODE SI	Δ
D1002	ERA18-04	DIODE SI	
D1002	EG01	DIODE SI	
D1003	ERA18-04	DIODE SI	
D1003	EG01	DIODE SI	
D1005	ERA18-04	DIODE SI	
D1005	EG01	DIODE SI	
D1006	ERC30-01L3	DIODE SI	
D1007	MA188	DIODE SI	
D1007	1SS244T-77	DIODE SI	
D1008	RK14	DIODE SI	
D1008	ERB81-004	DIODE SI	
D1011	MA4051N-TAKT	DIODE ZENER 5.1V	
D1012	MA858	DIODE SI	
D1012	1SS135T-77	DIODE SI	
D1013	MA165	DIODE SI	
D1013	1SS119	DIODE SI	
D1013	1SS133T	DIODE SI	
D1015	MA2180LA	DIODE ZENER 18V	Δ
D1015	1N4746A-T	DIODE ZENER 18V	Δ
D1015	1N4746ARL	DIODE ZENER 18V	Δ
D1016	MA165	DIODE SI	
D1016	1SS119	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D1016	1SS133T	DIODE SI	
D1051	MA4110N-H	DIODE ZENER 11V	
D1070	MA4056-M	DIODE ZENER 5.6V	
D4171	MA165	DIODE SI	
D4171	1SS119	DIODE SI	
D4171	1SS133T	DIODE SI	
D4591	RD9.1EW	DIODE ZENER 9.1V	
D5501	MA4062-L	DIODE ZENER 6.2V	Δ
D5602	MA165	DIODE SI	
D5602	1SS119	DIODE SI	
D5602	1SS133T	DIODE SI	
D5603	MA165	DIODE SI	
D5603	1SS119	DIODE SI	
D5603	1SS133T	DIODE SI	
D6001	VEKS5708	SENSOR LED UNIT	
D6003	MA165	DIODE SI	
D6003	1SS119	DIODE SI	
D6003	1SS133T	DIODE SI	
D6005	MA165	DIODE SI	
D6005	1SS119	DIODE SI	
D6005	1SS133T	DIODE SI	
D6009	MA165	DIODE SI	
D6009	188119	DIODE SI	
D6009	1SS133T	DIODE SI	
D6301	SLP913C81HAB	LIGHT EMITTING DIODE RED	
D6302	SLP413C81HAB	LIGHT EMITTING DIODE ORANGE	
D6303	SLP313C81HAB	LIGHT EMITTING DIODE GREEN	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R401	ERDS2TJ271T	CARBON 1/4W 270	
R402	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R409	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R410	ERDS2TJ392T	CARBON 1/4W 3.9K	
R411	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R413	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R414	ERDS1FJ1R2P	CARBON 1/2W 1.2	Δ
		-	
R422	ERD25FJ101P	CARBON 1/4W 100	Δ
R427	ERQ14AJ5R6P	FUSE 1/4W 5.6	Δ
R431	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R432	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R433	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R434	ERDS2TJ103	CARBON 1/4W 10K	
R435	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R436	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R466	ERJ6GEYJ683V	MGF CHIP 1/10W 68K	
R468	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R474	ERDS2TJ152T	CARBON 1/4W 1.5K	
R501	ERDS2TJ681T	CARBON 1/4W 680	
R502	ERDS2TJ332T	CARBON 1/4W 3.3K	
R503	ER0S2THF1152	PRECISION METAL FILM 1/4W 11.5K	Δ
R503	ER0S2TKF1152	PRECISION METAL FILM 1/4W 11.5K	Δ
R503	VRESR4TF1152	PRECISION METAL FILM 1/4W 11.5K	Δ
R505	ERDS2TJ561T	CARBON 1/4W 560	
R509	ERDS2TJ101T	CARBON 1/4W 100	
R510	ERDS2TJ472T	CARBON 1/4W 4.7K	
R511	ERG2ANJ222H	METAL OXIDE 2W 2.2K	
R514	ERDS2TJ271T	CARBON 1/4W 270	
R515	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R516	LAR05272J09	W FLMPRF 5W 2.7K	
R519	ERDS2TJ123T	CARBON 1/4W 12K	
R520	ERDS2TJ562T	CARBON 1/4W 5.6K	
R524	ERDS2TJ223	CARBON 1/4W 22K	
R525	ERDS2TJ222T	CARBON 1/4W 2.2K	
R529	ERDS2TJ103	CARBON 1/4W 10K	
R531	ERDS2TJ223	CARBON 1/4W 22K	
R541	ERDS2TJ473T	CARBON 1/4W 47K	
R542	ERDS2TJ103	CARBON 1/4W 10K	
R543	ERDS2TJ472T	CARBON 1/4W 4.7K	
R545	ERDS2TJ331T	CARBON 1/4W 330	
R546	ERDS2TJ103	CARBON 1/4W 10K	
R547	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R548	ERDS2TJ104T	CARBON 1/4W 100K	
R552	ERDS2TJ273T	CARBON 1/4W 27K	
R553	ERDS2TJ102	CARBON 1/4W 1K	
R554	ERDS2TJ123T	CARBON 1/4W 12K	
R555	ERDS2TJ823T	CARBON 1/4W 82K	
R556	ERDS2TJ823T	CARBON 1/4W 82K	
		CARDON NATIONAL	

R557 ERG2SJ331H METAL OXIDE 2W 330 R558 ERG2ANJ561H METAL OXIDE 2W 560 R559 ERDS2TJ123T CARBON 1/4W 12K K561 ERQ2CJP1R8S FUSE 2W 1.8 K561 ERQ2CJP1R8S FUSE 2W 1.8 K561 ERQ2CJP1R8S FUSE 2W 1.8 K562 ERF2AK3R9P W FLMPRF 2W 3.9 R571 ERDS2TJ01T CARBON 1/4W 300 R572 ERDS2TJ331T CARBON 1/4W 330 R573 ERDS2TJ317PP CARBON 1/4W 220 K574 ERJ6GEYJ273V MGF CHIP 1/10W 27K K581 ERDS1FJ1RPP CARBON 1/2W 1.5 ⚠ K582 ERDS1FJ1R2P CARBON 1/2W 1.2 ⚠ K584 ERDS2TJ562T CARBON 1/4W 47K	Ref. No.	Part No.	Part Name & Description	Remarks
R559 ERDS2TJ123T CARBON 1/4W 12K R561 ERQ2CJP1R8S FUSE 2W 1.8 R562 ERF2AK3R9P W FLMPRF 2W 3.9 R571 ERDS2TJ311T CARBON 1/4W 300 R572 ERDS2TJ331T CARBON 1/4W 220 R573 ERDS2TJ221 CARBON 1/4W 220 R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K R581 ERDS1FJ1RPP CARBON 1/2W 1.5 ⚠ R581 ERDS1FJ1R2P CARBON 1/2W 1.5 ⚠ R582 ERDS2TJ562T CARBON 1/2W 1.5 ⚠ R584 ERDS2TJ373T CARBON 1/2W 1.5 ⚠ R585 ERDS2TJ393T CARBON 1/4W 39K	R557	ERG2SJ331H	METAL OXIDE 2W 330	
R561 ERQ2CJP1R8S FUSE 2W 1.8 ⚠ R562 ERF2AK3R9P W FLMPRF 2W 3.9 □ R571 ERDS2TJ101T CARBON 1/4W 100 □ R572 ERDS2TJ331T CARBON 1/4W 330 □ R573 ERDS2TJ221 CARBON 1/4W 330 □ R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K □ R581 ERDS1FJ1RSP CARBON 1/2W 1.5 ⚠ R582 ERDS1FJ1R2P CARBON 1/2W 1.2 ⚠ R584 ERDS2TJ473T CARBON 1/4W 7K □ R585 ERDS2TJ473T CARBON 1/4W 39K □ R586 ERDS2TJ933T CARBON 1/4W 39K □ R801 ERF3AKR82 W FLMPRF 3W 0.82 ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R804 ERF15ZJ181 W FLMPRF 18W 180 □ R805 ERDS2TJ104T CARBON 1/4W 100K □ R810 ERDS2TJ101 CARBON 1/4W 100K	R558	ERG2ANJ561H	METAL OXIDE 2W 560	
R562 ERF2AK3R9P W FLMPRF 2W 3.9 R571 ERDSZTJ101T CARBON 1/4W 100 R572 ERDSZTJ331T CARBON 1/4W 330 R573 ERDSZTJ221 CARBON 1/4W 220 R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K R581 ERDS1FJ1R5P CARBON 1/2W 1.5 R582 ERDS1FJ1R2P CARBON 1/2W 1.2 R584 ERDSZTJ562T CARBON 1/4W 5.6K R585 ERDSZTJ473T CARBON 1/4W 47K R586 ERDSZTJ473T CARBON 1/4W 39K R801 ERF3AKR82 W FLMPRF 3W 0.82 R802 ERDS1FJ103P CARBON 1/2W 10K R802 ERDS1FJ103P CARBON 1/2W 10K R804 ERF15ZJ181 W FLMPRF 15W 180 R805 ERDSZTJ404T CARBON 1/4W 47 R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDSZTJ104T CARBON 1/4W 100K R813 ERDSZTJ104T CARBON 1/4W 100K R814 VRESCZTK825T CARBON 1/4W 100K R816 ERDSZTJ333H CARBON 1/4W 100K R817 CARBON 1/4W 100K R818 VRESCZTK825T CARBON 1/4W 100K R819 CARBON 1/4W 100K R810 ERDSZTJ104T CARBON 1/4W 100K R810 ERDSZTJ104T CARBON 1/4W 100K R811 CARBON 1/4W 100K R812 CARBON 1/4W 100K R813 ERDSZTJ104T CARBON 1/4W 100K R814 VRESCZTK825T CARBON 1/4W 2.2K R1003 VRESEZTJ334T CARBON 1/4W 2.2K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDSZTJ101T CARBON 1/4W 100 R1010 ERDSZTJ392T CARBON 1/4W 100 R1010 ERDSZTJ392T CARBON 1/4W 100 R1010 ERDSZTJ392T CARBON 1/4W 100 R1011 ERD25FJ100P CARBON 1/4W 10 R1011 ERD26FJ100P CARB	R559	ERDS2TJ123T	CARBON 1/4W 12K	
R571	R561	ERQ2CJP1R8S	FUSE 2W 1.8	Δ
R572 ERDS2TJ331T CARBON 1/4W 330 R573 ERDS2TJ221 CARBON 1/4W 220 R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K MGF	R562	ERF2AK3R9P	W FLMPRF 2W 3.9	
R573 ERDS2TJ221 CARBON 1/4W 220 R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K R581 ERDS1FJ1R5P CARBON 1/2W 1.5 ⚠ R582 ERDS1FJ1R2P CARBON 1/2W 1.2 ⚠ R584 ERDS2TJ562T CARBON 1/4W 5.6K Image: Control of the control	R571	ERDS2TJ101T	CARBON 1/4W 100	
R574 ERJ6GEYJ273V MGF CHIP 1/10W 27K R581 ERDS1FJ1R5P CARBON 1/2W 1.5 ⚠ R582 ERDS1FJ1R2P CARBON 1/2W 1.2 ⚠ R584 ERDS2TJ562T CARBON 1/4W 5.6K ☐ R585 ERDS2TJ393T CARBON 1/4W 39K ☐ R801 ERF3AKR82 W FLMPRF 3W 0.82 ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R802 ERDS1FJ103 CARBON 1/2W 10K ⚠ R804 ERF15ZJ181 W FLMPRF 15W 180 ☐ R805 ERDS2TJ104T CARBON 1/4W 100K ☐ R806 ERO14AJ470P FUSE 1/4W 47 ⚠ R810 ERDS2TJ103 CARBON 1/4W 10K ☐ R813 ERDS2TJ104T CARBON 1/4W 10K ☐ R818 VRESC2TK825T CARBON 1/4W 2.2K ☐ R1003 VRESE2TJ334T CARBON 1/4W 2.2K ☐ R1004 ERG2SJ333H METAL OXIDE 2W 33K ☐ R1005 ERG1sJ560P METAL OXIDE 1W 56	R572	ERDS2TJ331T	CARBON 1/4W 330	
R581 ERDS1FJ1R5P CARBON 1/2W 1.5 ⚠ R582 ERDS1FJ1R2P CARBON 1/2W 1.2 ⚠ R584 ERDS2TJ562T CARBON 1/4W 5.6K □ R585 ERDS2TJ473T CARBON 1/4W 47K □ R586 ERDS2TJ393T CARBON 1/4W 39K □ R801 ERF3AKR82 W FLMPRF 3W 0.82 ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R802 ERDS1FJ103 CARBON 1/2W 10K ⚠ R804 ERF15ZJ181 W FLMPRF 15W 180 □ R805 ERDS2TJ104T CARBON 1/4W 100K □ R806 ERQ14AJ470P FUSE 1/4W 47 ⚠ R810 ERDS2TJ103 CARBON 1/4W 10K □ R813 ERDS2TJ104T CARBON 1/4W 10K □ R818 VRESC2TK825T CARBON 1/4W 2.2K □ R1003 VRESE2TJ334T CARBON 1/4W 2.2K □ R1004 ERG2SJ333H METAL OXIDE 1W 56 □ R1005 ERG1sJ560P METAL OXIDE 1W 5	R573	ERDS2TJ221	CARBON 1/4W 220	
R582 ERDS1FJ1R2P CARBON 1/2W 1.2	R574	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R584 ERDS2TJ562T CARBON 1/4W 5.6K R585 ERDS2TJ473T CARBON 1/4W 47K R586 ERDS2TJ393T CARBON 1/4W 39K R801 ERF3AKR82 W FLMPRF 3W 0.82 ▲ R802 ERDS1FJ103P CARBON 1/2W 10K ▲ R804 ERT52J181 W FLMPRF 15W 180 ✓ R805 ERDS2TJ104T CARBON 1/4W 100K ✓ R806 ERQ14AJ470P FUSE 1/4W 47 ▲ R810 ERDS2TJ103 CARBON 1/4W 100K ✓ R813 ERDS2TJ104T CARBON 1/4W 100K ✓ R818 VRESC2TK825T CARBON 1/4W 100K ✓ R865 ERDS2TJ322T CARBON 1/4W 2.2K ✓ R1003 VRESE2TJ334T CARBON 1/2W 330K ✓ R1004 ERG2SJ333H METAL OXIDE 1W 56 ✓ R1005 ERG1SJ560P METAL OXIDE 1W 56 ✓ R1006 ERJ6GEYJ2222V MGF CHIP 1/10W 2.2K ✓ R1007 ERDS2TJ100T CARBON 1/4W 10 ▲	R581	ERDS1FJ1R5P	CARBON 1/2W 1.5	Δ
R585 ERDS2TJ473T CARBON 1/4W 47K R586 ERDS2TJ393T CARBON 1/4W 39K R801 ERF3AKR82 W FLMPRF 3W 0.82 ▲ R802 ERDS1FJ103P CARBON 1/2W 10K ▲ R802 ERDS1FJ103P CARBON 1/2W 10K ▲ R804 ERF15ZJ181 W FLMPRF 15W 180 ■ R805 ERDS2TJ104T CARBON 1/4W 100K ■ R806 ERQ14AJ470P FUSE 1/4W 47 ▲ R810 ERDS2TJ103 CARBON 1/4W 10K ■ R813 ERDS2TJ104T CARBON 1/4W 100K ■ R818 VRESC2TK825T CARBON 1/4W 100K ■ R865 ERDS2TJ322T CARBON 1/4W 2.2K ■ R1004 ERG2SJ333H METAL OXIDE 2W 33K ■ R1005 ERG1SJ560P METAL OXIDE 1W 56 ■ R1006 ERJGGEYJ222V MGF CHIP 1/10W 2.2K ■ R1007 ERDS2TJ101T CARBON 1/4W 100 ▲ R1010 ERD25FJ100P CARBON 1/4W 3.9K ■	R582	ERDS1FJ1R2P	CARBON 1/2W 1.2	<u> </u>
R586 ERDS2TJ393T CARBON 1/4W 39K R801 ERF3AKR82 W FLMPRF 3W 0.82 ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R802 ERDS1FJ103P CARBON 1/2W 10K ⚠ R804 ERF15ZJ181 W FLMPRF 15W 180 R805 ERDS2TJ104T CARBON 1/4W 100K R806 ERQ14AJ470P FUSE 1/4W 47 ⚠ R810 ERDS2TJ103 CARBON 1/4W 10K R813 ERDS2TJ104T CARBON 1/4W 10K R818 VRESC2TK825T CARBON 1/4W 10K R818 VRESC2TJ322T CARBON 1/4W 2.2K R1003 VRESE2TJ334T CARBON 1/4W 2.2K R1004 ERG2SJ333H METAL OXIDE 1W 56 R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJGGEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 ⚠ R1008 ERD25FJ100P CARBON 1/4W 10 ⚠<	R584	ERDS2TJ562T	CARBON 1/4W 5.6K	
R801 ERF3AKR82 W FLMPRF 3W 0.82	R585	ERDS2TJ473T	CARBON 1/4W 47K	
R802 ERDS1FJ103P CARBON 1/2W 10K R802 ERDS1FPJ103 CARBON 1/2W 10K R804 ERF15ZJ181 W FLMPRF 15W 180 R805 ERDS2TJ104T CARBON 1/4W 100K R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDS2TJ103 CARBON 1/4W 100K R8113 ERDS2TJ104T CARBON 1/4W 100K R8184 VRESC2TK825T CARBON 1/4W 2.2K R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CAR	R586	ERDS2TJ393T	CARBON 1/4W 39K	
R802 ERDS1FPJ103 CARBON 1/2W 10K R804 ERF15ZJ181 W FLMPRF 15W 180 R805 ERDS2TJ104T CARBON 1/4W 100K R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDS2TJ103 CARBON 1/4W 10K R811 ERDS2TJ104T CARBON 1/4W 10K R812 CARBON 1/2W 8.2M R813 ERDS2TJ104T CARBON 1/4W 10K R814 VRESC2TK825T CARBON 1/2W 8.2M R805 ERDS2TJ222T CARBON 1/2W 8.2M R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 100 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10	R801	ERF3AKR82	W FLMPRF 3W 0.82	A
R804 ERF15ZJ181 W FLMPRF 15W 180 R805 ERDS2TJ104T CARBON 1/4W 100K R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDS2TJ103 CARBON 1/4W 10K R813 ERDS2TJ104T CARBON 1/4W 100K R818 VRESC2TK825T CARBON 1/4W 2.2K R81003 VRESE2TJ322T CARBON 1/2W 3.30K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBO	R802	ERDS1FJ103P	CARBON 1/2W 10K	Δ
R805 ERDS2TJ104T CARBON 1/4W 100K R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDS2TJ103 CARBON 1/4W 10K R813 ERDS2TJ104T CARBON 1/4W 100K R818 VRESC2TK825T CARBON 1/2W 8.2M R865 ERDS2TJ222T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 100 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1	R802	ERDS1FPJ103	CARBON 1/2W 10K	<u> </u>
R806 ERQ14AJ470P FUSE 1/4W 47 R810 ERDS2TJ103 CARBON 1/4W 10K R813 ERDS2TJ104T CARBON 1/4W 100K R818 VRESC2TK825T CARBON 1/2W 8.2M R865 ERDS2TJ222T CARBON 1/2W 330K R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K R1017 ERJ6GEYJ183V MGF CHIP 1/10W 10K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K	R804	ERF15ZJ181	W FLMPRF 15W 180	
R810 ERDS2TJ103 CARBON 1/4W 10K R813 ERDS2TJ104T CARBON 1/4W 100K R818 VRESC2TK825T CARBON 1/2W 8.2M R865 ERDS2TJ222T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 100 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K	R805	ERDS2TJ104T	CARBON 1/4W 100K	
R813 ERDS2TJ104T CARBON 1/4W 100K R818 VRESC2TK825T CARBON 1/2W 8.2M R865 ERDS2TJ222T CARBON 1/2W 330K R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1010 VRESF4FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 0K R1017 ERJ6GEYJ183V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R806	ERQ14AJ470P	FUSE 1/4W 47	Δ
R818	R810	ERDS2TJ103	CARBON 1/4W 10K	
R865 ERDS2TJ222T CARBON 1/4W 2.2K R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 20 R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ221V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R813	ERDS2TJ104T	CARBON 1/4W 100K	
R1003 VRESE2TJ334T CARBON 1/2W 330K R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 220 R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 10K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ392V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R818	VRESC2TK825T	CARBON 1/2W 8.2M	Δ
R1004 ERG2SJ333H METAL OXIDE 2W 33K R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P C	R865	ERDS2TJ222T	CARBON 1/4W 2.2K	
R1005 ERG1SJ560P METAL OXIDE 1W 56 R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1011 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 220 R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 10K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1003	VRESE2TJ334T	CARBON 1/2W 330K	
R1006 ERJ6GEYJ222V MGF CHIP 1/10W 2.2K R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 R1010 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 3.9K R1019 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1020 ERJ6GEYJ2221V MGF CHIP 1/10W 220	R1004	ERG2SJ333H	METAL OXIDE 2W 33K	
R1007 ERDS2TJ101T CARBON 1/4W 100 R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 ⚠ R1010 ERD25FJ100P CARBON 1/4W 10 ⚠ R1010 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 10K R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 3.9K R1019 ERJ6GEYJ682V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ2221V MGF CHIP 1/10W 220	R1005	ERG1SJ560P	METAL OXIDE 1W 56	
R1008 ERDS2TJ392T CARBON 1/4W 3.9K R1010 ERD25FJ100P CARBON 1/4W 10 ⚠ R1010 ERD25FPJ100P CARBON 1/4W 10 ⚠ R1010 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 10K R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K R1017 ERJ6GEYJ183V MGF CHIP 1/10W 18K MGF CHIP 1/10W 3.9K R1018 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K MGF CHIP 1/10W 6.8K R1020 ERJ6GEYJ2221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 220	R1006	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1010 ERD25FJ100P CARBON 1/4W 10 ⚠ R1010 ERD25FPJ100P CARBON 1/4W 10 ⚠ R1010 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FPJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 10K R1016 ERJ8GEYJ562V MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K R1017 ERJ6GEYJ183V MGF CHIP 1/10W 18K MGF CHIP 1/10W 3.9K R1018 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K MGF CHIP 1/10W 6.8K R1020 ERJ6GEYJ2221V MGF CHIP 1/10W 220	R1007	ERDS2TJ101T	CARBON 1/4W 100	
R1010 ERD25FPJ100P CARBON 1/4W 10 ⚠ R1010 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FJ100P CARBON 1/4W 10 ⚠ R1011 ERD25FPJ100P CARBON 1/4W 10 ⚠ R1011 VRESF4FJ100P CARBON 1/4W 10 ⚠ R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 MGF CHIP 1/10W 10K R1016 ERJ6GEYJ103V MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 3.9K R1019 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1020 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1008	ERDS2TJ392T	CARBON 1/4W 3.9K	
R1010 VRESF4FJ100P CARBON 1/4W 10 R1011 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FPJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1010	ERD25FJ100P	CARBON 1/4W 10	Δ
R1011 ERD25FJ100P CARBON 1/4W 10 R1011 ERD25FPJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/10W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1010	ERD25FPJ100P	CARBON 1/4W 10	Δ
R1011 ERD25FPJ100P CARBON 1/4W 10 R1011 VRESF4FJ100P CARBON 1/4W 10 R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/8W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ892V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1010	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1011 VRESF4FJ100P CARBON 1/4W 10 R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/8W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1011	ERD25FJ100P	CARBON 1/4W 10	<u> </u>
R1014 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/8W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1011	ERD25FPJ100P	CARBON 1/4W 10	<u> </u>
R1015 ERJ6GEYJ221V MGF CHIP 1/10W 220 R1016 ERJ8GEYJ562V MGF CHIP 1/8W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1011	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1016 ERJ8GEYJ562V MGF CHIP 1/8W 5.6K R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1014	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1017 ERJ6GEYJ103V MGF CHIP 1/10W 10K R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1018 ERJ6GEYJ183V MGF CHIP 1/10W 18K R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1016	ERJ8GEYJ562V	MGF CHIP 1/8W 5.6K	
R1019 ERJ6GEYJ392V MGF CHIP 1/10W 3.9K R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1017	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1020 ERJ6GEYJ682V MGF CHIP 1/10W 6.8K R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1018	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R1022 ERJ6GEYJ221V MGF CHIP 1/10W 220	R1019	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
	R1020	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R1024 ERDS2T0T CARBON 1/4W 0	R1022	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
	R1024	ERDS2T0T	CARBON 1/4W 0	

Ref. No.	Part No.	Part Name & Description	Remarks
R1025	VRESE2TJ150T	CARBON 1/2W 15	
R1051	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R1052	ERDS2TJ153T	CARBON 1/4W 15K	
R1053	ERDS2TJ153T	CARBON 1/4W 15K	
R1057	ERDS2TJ331T	CARBON 1/4W 330	
R1058	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1070	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R1071	ERJ6GEYJ154V	MGF CHIP 1/10W 150K	
R1072	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R1073	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R1074	ERG2SJ102E	METAL OXIDE 2W 1K	
R1075	ERG2SJ102E	METAL OXIDE 2W 1K	
R1076	VLQSH02R101K	COIL 100UH	
R2601	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2602	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2603	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R2604	ERDS2TJ1R0T	CARBON 1/4W 1.0	
R2605	ERDS2TJ1R2T	CARBON 1/4W 1.2	
R2606	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R3001	ERDS2TJ101T	CARBON 1/4W 100	
R3006	ERDS2TJ101T	CARBON 1/4W 100	
R3016	ERJ6GEYJ121V	MGF CHIP 1/10W 120	
R3017	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R3024	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R3025	ERJ6GEYJ125V	MGF CHIP 1/10W 1.2M	
R3026	ERJ6GEYJ474V	MGF CHIP 1/10W 470K	
R3028	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R3029	ERJ6GEYJ151V	MGF CHIP 1/10W 150	
R3032	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R3036	ERJ6GEYG102V	MGF CHIP 1/10W 1K	
R3037	ERJ6GEYG102V	MGF CHIP 1/10W 1K	
R3038	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R3043	ERJ6GEYG392V	MGF CHIP 1/10W 3.9K (H,I,J,K)	
R3044		MGF CHIP 1/10W 6.8K (H,I,J,K)	
R3045	ERJ6GEYG222V		
R3046	ERJ6GEYG682V	MGF CHIP 1/10W 6.8K (H,I,J,K)	
R3077	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3083		MGF CHIP 1/10W 0	
R3084	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3086	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R3087	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K (H,I,J,K)	
R3087	ERJ6GEYJ684V	MGF CHIP 1/10W 680K (L)	
R3091	ERJ6GEYJ750V	MGF CHIP 1/10W 75	
R3301	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3302	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R3303	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R4001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4002	ERJ6GEYJ334V	MGF CHIP 1/10W 330K	
R4003	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
			

Ref. No.	Part No.	Part Name & Description	Remarks
R4004	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R4005	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R4006	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R4007	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R4008	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R4009	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4010	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4011	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4012	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4014	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4015	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R4018	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K (H,K,L)	
R4018	ERJ6GEYJ123V	MGF CHIP 1/10W 12K (I,J)	
R4021	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4051	ERJ6GEYJ393V	MGF CHIP 1/10W 39K	
R4052	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R4101	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R4101	ERJ6GEYJ184V	MGF CHIP 1/10W 180K	
R4102	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R4103	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
	ERJ6GEYJ102V	MGF CHIP 1/10W 15K	
R4172			
R4173	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R4175	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4502	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4504	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R4509	ERDS2TJ100T	CARBON 1/4W 10	
R4512	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (L)	
R4514	ERJ6GEYJ823V	MGF CHIP 1/10W 82K (L)	
R4519	ERDS2TJ100T	CARBON 1/4W 10 (L)	a
R4521	ERQ1ABJP4R7S	FUSE 1W 4.7 (H,I,J,K)	<u> </u>
R4521	ERQ1ABJP2R2S	FUSE 1W 2.2 (L)	\triangle
R4523	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R4524	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R4591	ERDS2TJ681T	CARBON 1/4W 680	
R4592	ERDS2TJ681T	CARBON 1/4W 680	
R4593	ERDS2TJ681T	CARBON 1/4W 680	
R4594	ERDS2TJ681T	CARBON 1/4W 680	
R4701	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5301	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5304	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R5305	ERJ6GEYJ224V	MGF CHIP 1/10W 220K	
R5306	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5308	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5309	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R5311	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5313	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5314	ERDS2TJ272T	CARBON 1/4W 2.7K	
R5315	ERDS2TJ272T	CARBON 1/4W 2.7K	

Ref. No.	Part No.	Part Name & Description	Remarks
R5316	ERDS2TJ272T	CARBON 1/4W 2.7K	
R5317	ERDS2TJ101T	CARBON 1/4W 100	
R5324	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5325	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5401	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5402	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5403	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5405	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R5406	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5502	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5503	ERDS2TJ471T	CARBON 1/4W 470	
R5504	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5505	ERJ6ENF3241V	MGF CHIP 1/10W 3.24K	\triangle
DEEOC	ED ISCEVIATOV	MCE CUID 4/40M 47K	
R5506	ERJ6GEYJ473V	MGF CHIP 1/10W 47K MGF CHIP 1/10W 560	
R5508	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5510	ERJ6GEYJ101V ERJ6GEYJ222V		
R5511		MGF CHIP 1/10W 2.2K	
R5512	ERDS2TJ151T	CARBON 1/4W 150	
R5513	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5515	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R5601	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R5604	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R5611	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5612	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5614	ERJ6GEYJ563V	MGF CHIP 1/10W 56K MGF CHIP 1/10W 1K	
R5902 R5932	ERJ6GEYJ102V ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5933	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6002	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6003	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6004	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6005	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6006	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6007	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6009	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6014	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (L)	
R6015	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (L)	
R6016	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6017	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6018	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6019	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6020	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6021	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6022	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6023	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R6024	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6026	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6027	ERJ6GEYJ101V	MGF CHIP 1/10W 100	

Ref. No.	Part No.	Part Name & Description	Remarks
R6028	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6029	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6031	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6032	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6033	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6036	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (L)	
R6039	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6044	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6045	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6047	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (I,J,L)	
R6048	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6049	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6050	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6054	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6055	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6056	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6057	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6060	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6061	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6062	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6063	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6064	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (I,J,L)	
R6065	ERJ6GEYJ102V	MGF CHIP 1/10W 1K (I,J,L)	
R6067	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6068	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6070	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6071	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6072	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6073	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6075	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6086	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6088	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6089	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6090	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R6091	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R6092	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6093	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (L)	
R6094	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (I,J,L)	
R6095	ERJ6GEYJ913V	MGF CHIP 1/10W 91K (L)	
R6101	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6102	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6103	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6104	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6105	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6110	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R6111	ERJ6GEYJ153V	MGF CHIP 1/10W 15K (L)	
R6112	ERJ6GEYJ224V	MGF CHIP 1/10W 220K (L)	
R6113	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6114	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6115	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6116	ERDS2TJ101T	CARBON 1/4W 100	
R6118	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6119	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6120	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6121	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6122	ERJ6GEYJ181V	MGF CHIP 1/10W 180	
R6123	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6124	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6125	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R6126	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6127	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6130	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6131	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6132	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
R6133	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6134	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6135	ERJ6GEYJ475V	MGF CHIP 1/10W 4.7M	
R6136	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R6137	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6138	ERDS2TJ560T	CARBON 1/4W 56	
R6142	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R6143	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6144	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6146	ERJ6GEYJ912V	MGF CHIP 1/10W 9.1K (H,I,J,K)	
R6146	ERJ6GEYJ913V	MGF CHIP 1/10W 91K (L)	
R6147	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (L)	
R6148	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (H,I,J,K)	
R6150	ERJ6GEYJ912V	MGF CHIP 1/10W 9.1K (H,K)	
R6150	ERJ6GEYJ273V	MGF CHIP 1/10W 27K (I,J,L)	
R6160	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6161	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6162	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6163	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R6169	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6170	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6171	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6201	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6202	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6203	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R6204	ERJ6GEYJ184V	MGF CHIP 1/10W 180K	
R6205	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R6206	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6207	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6208	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R6209	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6210	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R6211	ERJ6GEYJ243V	MGF CHIP 1/10W 24K	
R6301	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6302	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6303	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6304	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6305	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6306	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6307	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6316	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6401	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R7001	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7002	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7003	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7004	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7005	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R7006	ERJ6GEYJ271V	MGF CHIP 1/10W 270	
R7007	ERDS2TJ102	CARBON 1/4W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
C401	ECEA1HGE2R2	ELECTROLYTIC 50V 2.2UF	
C402	ECA1CM471B	ELECTROLYTIC 16V 470UF	
C408	ECA1HGE010KB	ELECTROLYTIC 50V 1UF	
C409	ECA1VM101B	ELECTROLYTIC 35V 100UF	
C413	ECQB1H104KF	POLYESTER 50V 0.1UF	
C414	ECA1EM102E	ELECTROLYTIC 25V 1000UF	
C418	ECA1VM221B	ELECTROLYTIC 35V 220UF	
C458	ECQB1H103KM	POLYESTER 50V 0.01UF	
C501	ECQB1H473KM3	POLYESTER 50V 0.047UF	
C510	ECKR2H102KB5	CERAMIC 500V 1000PF	
C513	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C524	ECKC3D821KBP	CERAMIC 2KV 820PF	Δ
C524	ECKW3D821KBP	CERAMIC 2KV 820PF	Δ
C531	ECA1HM3R3B	ELECTROLYTIC 50V 3.3UF	
C541	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C543	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C552	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C553	ECKR2H471KB5	CERAMIC 500V 470PF	
C554	ECWH15H682J4	POLYESTER 1.5KV 6800PF	Δ
C554	ECWH20682JBV	POLYESTER 2000V 6800PF	Δ
C556	ECWF2434JBB	POLYESTER 500V 0.43UF	Δ
C556	ECWF2434JSB	POLYESTER 500V 0.43UF	Δ
C556	LSCFM2434JM	POLYESTER 500V 0.33UF	Δ
C558	ECA1VM101B	ELECTROLYTIC 35V 100UF	
C560	ECA2EM100B	ELECTROLYTIC 250V 10UF	Δ
C561	ECA2CM2R2B	ELECTROLYTIC160V 2.2UF	
C563	ECEA180V33WE	ELECTROLYTIC 180V 33UF	
C571	ECA1HM3R3B	ELECTROLYTIC 50V 3.3UF	
C572	ECA1CM221B	ELECTROLYTIC 16V 220UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C573		CERAMIC 50V 1200PF	
C801	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C802	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C803	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C804	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C805	EC0S2PP471BB	ELECTROLYTIC 180V 470UF	Δ
C805	ECES2PU471HG	ELECTROLYTIC 180V 470UF	Δ
C806	ECEA2EU220E	ELECTROLYTIC 250V 22UF	
C806	ECA2EM220E	ELECTROLYTIC 250V 22UF	
C807	VSQ1003-F	ARRESTER	\triangle
C808	ECQU2A823MLA	POLYESTER 250V 0.082UF	Δ
C808	LSCFQ2A823MC	POLYESTER 250V 0.082UF	Δ
C809	ECKATS221MB	CERAMIC 125V 220PF	Δ
C809	ECKETS221MB	CERAMIC 125V 220PF	Δ
C809	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C809	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C809	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C809	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C810	ECKATS221MB	CERAMIC 125V 220PF	Δ
C810	ECKETS221MB	CERAMIC 125V 220PF	Δ
C810	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C810	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C810	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C810	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C811	ECKATS472MF	CERAMIC 250V 4700PF	Δ
C812	ECKATS472MF	CERAMIC 250V 4700PF	Δ
C817	ECKATS152ME	CERAMIC 250V 1500PF	Δ
C1001	ECKATS103MF	CERAMIC 250V 0.01UF	Δ
C1001	ECKETS103MF	CERAMIC 125V 0.01UF	Δ
C1001	VCKST3G103MY	CERAMIC 250V 0.01UF	Δ
C1001	VCKSU3D103MY	CERAMIC 125V 0.01UF	Δ

Ref. No.	Part No.	Part Name & Description	Remarks
C1002	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1002	ECKDNB332ME8	CERAMIC 125V 3300PF	Δ
C1002	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1002	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1002	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1003	ECKATS222ME	CERAMIC 250V 2200PF	Δ
C1003	ECKETS222ME	CERAMIC 250V 2200PF	Δ
C1003	VCKST5D222MX	CERAMIC 125V 2200PF	Δ
C1003	VCKSU5D222MX	CERAMIC 125V 2200PF	Δ
C1003	VCKST4D222MX	CERAMIC 125V 2200PF	Δ
C1003	VCKSU4D222MX	CERAMIC 125V 2200PF	Δ
C1004	ECEA2DU121YE	ELECTROLYTIC 200V 120UF	Δ
C1004	VCESAN2D121E	ELECTROLYTIC 200V 120UF	Δ
C1004	VCESR2D121XE	ELECTROLYTIC 200V 120UF	Δ
C1005	ECA2DHG4R7B	ELECTROLYTIC 200V 4.7UF	
C1006	ECKR2H221KB5	CERAMIC 500V 220PF	
C1007	ECUV1C224KBN	C CHIP 16V 0.22UF	
C1009	VCYSBRE183KX	CERAMIC 25V 0.018UF	
C1010	ECUV1H101JCN	C CHIP 50V 100PF	
C1011	ECA1HHG4R7B	ELECTROLYTIC 50V 4.7UF	
C1012	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1013	ECA1EM331B	ELECTROLYTIC 25V 330UF	
C1014	ECA1HHG4R7I	ELECTROLYTIC 50V 4.7UF	
C1016	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1017	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1018	ECUV1E104KBN	C CHIP 25V 0.1UF	
C1021	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C1025	ECKATS221MB	CERAMIC 125V 220PF	Δ
C1025	ECKETS221MB	CERAMIC 125V 220PF	Δ
C1025	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C1025	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C1025	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C1025	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C1025	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C1025	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C1025	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C1025	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C1029	ECUV1H101JCN	C CHIP 50V 100PF	
C1030	VCYSBRE183KX	CERAMIC 25V 0.018UF	
C1032	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C1051	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1052	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
L	l .		

Ref. No.	Part No.	Part Name & Description	Remarks
C1058	ECEA0JEE101	ELECTROLYTIC 6.3V 100UF	
C1059	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C1070	ECA1CM101B	ELECTROLYTIC 16V 100UF	
C1083	ECKATS221MB	CERAMIC 125V 220PF	Δ
C1083	ECKETS221MB	CERAMIC 125V 220PF	Δ
C1083	VCKSEJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSELD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSHJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSHLD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSTJG221KW	CERAMIC 250V 220PF	Δ
C1083	VCKSTLG221KW	CERAMIC 250V 220PF	Δ
C1083	VCKSUJD221KW	CERAMIC 125V 220PF	Δ
C1083	VCKSULD221KW	CERAMIC 125V 220PF	Δ
C1084	ECKATS222ME	CERAMIC 250V 2200PF	Δ
C1084	ECKETS222ME	CERAMIC 250V 2200PF	Δ
C1084	VCKST5D222MX	CERAMIC 125V 2200PF	A
C1084	VCKSU5D222MX	CERAMIC 125V 2200PF	Δ
C1084	VCKST4D222MX	CERAMIC 125V 2200PF	Δ
C1084	VCKSU4D222MX	CERAMIC 125V 2200PF	Δ
C1085	ECKATS152ME	CERAMIC 250V 1500PF	Δ
C2601	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2602	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2603	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C2604	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2605	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2606	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2607	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2608	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C2609	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C2610	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C2611	ECUV1H103KBN	C CHIP 50V 0.01UF	
C2612	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C2616	ECA1EM331B	ELECTROLYTIC 25V 330UF	
C3003	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3004	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3006	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3008	ECUV1H181JCN	C CHIP 50V 180PF	
C3009	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C3010		C CHIP 50V 0.01UF	
C3013		C CHIP 16V 0.22UF	
C3015	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3016	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C3019	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
30013			

Ref. No.	Part No.	Part Name & Description	Remarks
C3020	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C3021	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3022	ECUV1C224ZFN	C CHIP 16V 0.22UF	
C3023	ECUV1H680JCN	C CHIP 50V 68PF	
C3024	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3025	ECUV1E104KBN	C CHIP 25V 0.1UF	
C3026	ECUV1H822KBN	C CHIP 50V 8200PF	
C3027	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3030	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3031	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3032	ECUV1C474ZFN	C CHIP 16V 0.47UF	
C3034	ECUV1H181JCN	C CHIP 50V 180PF	
C3035	ECUV1H330JCN	C CHIP 50V 33PF	
C3036	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3038	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3041	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3043	ECUV1H392KBN	C CHIP 50V 3900PF	
C3044	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3045	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C3046	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3047	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3048	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3050	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3053	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3055	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3056	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3057	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3058	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3060	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3081	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
C3082	ECUV1H332KBN	C CHIP 50V 3300PF	
C3231	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C3232	ECUV1H102KBN	C CHIP 50V 1000PF	
C3234	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3235	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3236	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3237	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3301	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3302	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C4001	ECUV1C224ZFN	C CHIP 16V 0.22UF	
C4002	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C4003	ECUV1H272KBN	C CHIP 50V 2700PF	
C4004	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4005	ECEA0JKS220	ELECTROLYTIC 6.3V 22UF	
C4006	ECUV1H102KBN	C CHIP 50V 1000PF	
C4007	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4009	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4010	ECUV1E333KBN	C CHIP 25V 0.033UF	
C4011	ECUV1H103KBN	C CHIP 50V 0.01UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C4012	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4013	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4014	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4018	ECUV1H103KBN	C CHIP 50V 0.01UF (H,I,J,K)	
C4020	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C4051	ECUV1E333KBN	C CHIP 25V 0.033UF	
C4102	ECQB1562JF3	POLYESTER 100V 5600PF	
C4103	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4104	ECUV1H103KBN	C CHIP 50V 0.01UF	
C4105	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C4171	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4502	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4504	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4506	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C4508	ECA1CM221B	ELECTROLYTIC 16V 220UF	
C4509		C CHIP 25V 0.047UF	
C4512	ECEA1CKA100	ELECTROLYTIC 16V 10UF (L)	
C4514	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF (L)	
C4516	ECEA1CKA470	ELECTROLYTIC 16V 47UF (L)	
C4518	ECA1CM221B	ELECTROLYTIC 16V 220UF (L)	
C4519	ECUV1E473KBN	C CHIP 25V 0.047UF (L)	
C4521	ECA1EM102B	ELECTROLYTIC 25V 1000UF	
C4524	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C4525		C CHIP 50V 0.01UF (L)	
C5301	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5302	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C5303	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C5305	ECEA1HKAR33	ELECTROLYTIC 50V 0.33UF	
C5306	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5307	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C5308	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C5401	VCUSTBC224KB	C CHIP 16V 0.22UF	
C5402	ECUV1H222KBN	C CHIP 50V 2200PF	
C5403	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C5501	ECUV1E183KBN	C CHIP 25V 0.018UF	
C5502	ECUV1H681KBN	C CHIP 50V 680PF	
C5505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5506	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5508	ECUV1H221JSN	C CHIP 50V 220PF	
C5510	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5511	ECUV1E333KBN	C CHIP 25V 0.033UF	
C5516	ECUV1E333KBN	C CHIP 25V 0.033UF	
C5601	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5602	ECUV1E104KBN	C CHIP 25V 0.1UF	
C5603	ECUV1H150JCN	C CHIP 50V 15PF	
C5604	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5605	ECUV1E153KBN	C CHIP 25V 0.015UF	
C5902	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5903	ECEA1CKA470	ELECTROLYTIC 16V 47UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C5904		C CHIP 50V 0.01UF	
C5905	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C5906	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C5932	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C6001	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6002	ECUV1H080CCN	C CHIP 50V 8PF	
C6003	ECUV1H150JCN	C CHIP 50V 15PF (H,I,J,K)	
C6003		C CHIP 50V 15PF (L)	
C6004	ECUV1E104KBN	C CHIP 25V 0.1UF	
C6006	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6009	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C6011	ECUV1H104ZFN	C CHIP 50V 0.1UF	
C6013	ECUV1H101JCN	C CHIP 50V 100PF	
C6017	ECUV1H101JCN	C CHIP 50V 100PF	
C6018		C CHIP 50V 100PF	
C6020		C CHIP 25V 0.1UF	
C6021	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6023		C CHIP 50V 0.01UF	
C6025		ELECTROLYTIC 6.3V 47UF	
C6029		C CHIP 50V 0.1UF	
C6040		C CHIP 50V 1000PF	
C6041		C CHIP 50V 1000PF	
C6044		C CHIP 25V 0.1UF	
C6203		C CHIP 50V 3300PF	
C6204		C CHIP 50V 0.01UF	
C6205		C CHIP 50V 33PF	
C6207		C CHIP 50V 0.1UF	
C6208	ECEA1CKS100	ELECTROLYTIC 16V 10UF	
C6209		C CHIP 50V 1000PF	
C6211		C CHIP 25V 0.1UF	
C6212		C CHIP 25V 0.1UF	
C6213		ELECTROLYTIC 6.3V 330UF	
C6214	ECEA0JKS220	ELECTROLYTIC 6.3V 22UF	
C6215		C CHIP 50V 2700PF	+
C6216		C CHIP 50V 0.01UF	
C6220	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C6221	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6302		C CHIP 50V 0.1UF	
C6401		C CHIP 50V 0.1UF	
C6402	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6403	ECUV1A105KBN		
C6404		C CHIP 50V 120PF	
C6406	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C6408		C CHIP 50V 2200PF	
C6410		C CHIP 50V 0.01UF	
C7002		C CHIP 50V 1000PF	
C7002	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C7007		C CHIP 50V 1000PF	
C7007		C CHIP 50V 0.01UF	
C7000	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
0/010	LUCATURATUU	LLLOIROLITIC 16V 100F	

FILTERS

Ref. No.	Part No.	Part Name & Description	Remarks
FL4051	VLFS0014	FILTER	

COILS

L501 ELH5L423 COIL ⚠ L501 ELH5L4108 COIL ⚠ L501 LLH2601T COIL ⚠ L552 VLPS0113 FERRITE BEAD L553 VLQSW07D220M COIL 22UH L803 ELF18D650C COIL 8.2MH ⚠ L803 LLN63021A LINE NOISE FILTER ⚠ L803 LLN63055A COIL L1001 ELF15N005A LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0166 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0167 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0167 LINE FILTER 0.6A 18MH ⚠ L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3002 ELESN101KA COIL 10UH L3010 ELESN470KA COIL 22UH L3011 ELESN221KA COIL 22UH L3010 ELESN470KA COIL 22UH L3011 ELESN216XA COIL 22UH L3012 ELESN101KA COIL 10UH L3014 ELESN470KA COIL 22UH L3015 ELESN101KA COIL 10UH L3016 ELESN101KA COIL 10UH L3017 ELESN470KA COIL 22UH L4011 L4004 VLQSU6R153K COIL 22UF L4101 ELESN471KA COIL 10UH L5901 ELESN470KA COIL 10UH L5902 ELESN470KA COIL 47UH L5901 ELESN470KA COIL 47UH L5901 ELESN470KA COIL 47UH L5901 ELESN470KA COIL 47UH L5902 ELESN470KA COIL 47UH L5901 ELESN470KA COIL 47UH L5902 ELESN470KA COIL 47UH L5903 ELESN470KA COIL 47UH L5904 ELESN101KA COIL 10UH L5905 ELESN470KA COIL 47UH L5906 ELESN101KA COIL 10UH L5907 ELESN470KA COIL 47UH L5908 ELESN470KA COIL 47UH L5909 ELESN470KA COIL 47UH L5909 ELESN470KA COIL 47UH L5901 ELESN101KA COIL 10UH L5902 ELESN470KA COIL 47UH L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR L6406 VLPS0111 CHIP BEAD INDUCTOR L6406 VLPS0111 CHIP BEAD INDUCTOR	Ref. No.	Part No.	Part Name & Description	Remarks
L501 LLH2601T COIL	L501	ELH5L423	COIL	Δ
L552 VLPS0113 FERRITE BEAD L553 VLQSW07D220M COIL 22UH L803 ELF18D650C COIL 8.2MH L803 LLN63021A LINE NOISE FILTER L803 LLN63055A COIL L1001 ELF15N005A LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D220K COIL 22UH L1004 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 22UH L4001 VLQSU6R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSU6R153K COIL 22UF L4101 ELESN471KA COIL 20UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 10UH L5901 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 10UH L5901 ELESN470KA COIL 47UH L5902 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 10UH L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR	L501	ELH5L4108	COIL	Δ
L553 VLQSW07D220M COIL 22UH L803 ELF18D650C COIL 8.2MH ⚠ L803 ELF21V018A LINE NOISE FILTER ⚠ L803 LLN63021A LINE FILTER 1.7A 8.2MH ⚠ L803 LLN63055A COIL ⚠ L1001 ELF15N005A LINE FILTER 0.5A 18MH ⚠ L1001 LSLQ0287 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0166 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0167 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0170 LINE FILTER 0.5A 18MH ⚠ L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN40KA COIL 15MH L4001 VLQSH02R220K <td>L501</td> <td>LLH2601T</td> <td>COIL</td> <td>Δ</td>	L501	LLH2601T	COIL	Δ
L803 ELF18D650C COIL 8.2MH ⚠ L803 ELF21V018A LINE NOISE FILTER ⚠ L803 LLN63021A LINE FILTER 1.7A 8.2MH ⚠ L803 LLN63055A COIL ⚠ L1001 ELF15N005A LINE FILTER 0.5A 18MH ⚠ L1001 LSLQ0287 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0166 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0167 LINE FILTER 0.5A 18MH ⚠ L1001 VLQS0170 LINE FILTER 0.6A 18MH ⚠ L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D220K COIL 22UH L1004 VLQSAB7D230K COIL 10UH L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 33UH L3001 VLQSH02R330K COIL 33UH L3231 ELESN21KA COIL 22UH L4001 VLQSU06R153K COIL 15MH <	L552	VLPS0113	FERRITE BEAD	
L803 ELF21V018A LINE NOISE FILTER L803 LLN63021A LINE FILTER 1.7A 8.2MH L803 LLN63055A COIL L1001 ELF15N005A LINE FILTER 0.5A 18MH L1001 LSLQ0287 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3231 ELESN40KA COIL 47UH L3231 ELESN40KA COIL 22UH L4001 VLQSU687153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 100UH L5901 ELESN471KA COIL 47UH L5901 ELESN471KA COIL 47UH L5901 ELESN470KA COIL 47UH L5902 ELESN470KA COIL 47UH L5902 ELESN470KA COIL 47UH L5903 ELESN470KA COIL 47UH L5904 ELESN470KA COIL 100UH L6405 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR	L553	VLQSW07D220M	COIL 22UH	
L803 LLN63021A LINE FILTER 1.7A 8.2MH L803 LLN63055A COIL L1001 ELF15N005A LINE FILTER 0.5A 18MH L1001 LSLQ0287 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 22UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L5901 ELESN470KA COIL 47UH L5901 ELESN470KA COIL 47UH L5901 ELESN101KA COIL 10UH L5901 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 10UH L5901 ELESN101KA COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR	L803	ELF18D650C	COIL 8.2MH	Δ
L803 LLN63055A COIL L1001 ELF15N005A LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 22UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 20UH L5901 ELESN470KA COIL 47UH L5901 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 47UH L5901 ELESN101KA COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR	L803	ELF21V018A	LINE NOISE FILTER	Δ
L1001 ELF15N005A LINE FILTER 0.5A 18MH L1001 LSLQ0287 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3231 ELESN221KA COIL 22UH L4001 VLQSU66R153K COIL 15MH L4002 ELESN101KA COIL 15MH L4002 ELESN101KA COIL 100UH L5901 ELESN470KA COIL 22UF L4101 ELESN471KA COIL 100UH L5901 ELESN101KA COIL 47UH L5901 ELESN101KA COIL 47UH L5902 ELESN101KA COIL 47UH L6401 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L803	LLN63021A	LINE FILTER 1.7A 8.2MH	Δ
L1001 LSLQ0287 LINE FILTER 0.5A 18MH L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3005 VLQSH02R330K COIL 33UH L3005 VLQSH02R330K COIL 33UH L3231 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 470UH L5902 ELESN101KA COIL 470UH L5902 ELESN101KA COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L803	LLN63055A	COIL	Δ
L1001 VLQS0166 LINE FILTER 0.5A 18MH L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 20UH L5901 ELESN471KA COIL 47UH L5901 ELESN470KA COIL 47UH L5902 ELESN101KA COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1001	ELF15N005A	LINE FILTER 0.5A 18MH	Δ
L1001 VLQS0167 LINE FILTER 0.5A 18MH L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 22UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 47UH L5901 ELESN471KA COIL 47UH L5901 ELESN101KA COIL 10UH L6001 ELESN470KA COIL 47UH L6201 ELESN101KA COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1001	LSLQ0287	LINE FILTER 0.5A 18MH	Δ
L1001 VLQS0170 LINE FILTER 0.6A 18MH L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 22UF L4101 ELESN471KA COIL 47UH L5901 ELESN101KA COIL 47UH L5902 ELESN101KA COIL 47UH L6201 ELESN101KA COIL 100UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1001	VLQS0166	LINE FILTER 0.5A 18MH	Δ
L1002 VLQSAB7D220K COIL 22UH L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 10UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 22UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 10UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 47UH L5901 ELESN471KA COIL 10UH L5901 ELESN101KA COIL 10UH L5902 ELESN101KA COIL 10UH L6201 ELEXT101KE04 COIL 10UH L6401 ELEXT101KE04 COIL 10UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1001	VLQS0167	LINE FILTER 0.5A 18MH	Δ
L1003 VLQSAB7D100K COIL 10UH L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 47UH L5901 ELESN101KA COIL 100UH L5902 ELESN101KA COIL 47UH L6201 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1001	VLQS0170	LINE FILTER 0.6A 18MH	Δ
L1006 VLPS0083 FILTER L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 47UH L5902 ELESN101KA COIL 47UH L6201 ELESN470KA COIL 47UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1002	VLQSAB7D220K	COIL 22UH	
L3001 VLQSH02R390K COIL 39UH L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 47UH L5901 ELESN471KA COIL 47UH L5902 ELESN470KA COIL 47UH L6201 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1003	VLQSAB7D100K	COIL 10UH	
L3002 ELESN101KA COIL 100UH L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L1006	VLPS0083	FILTER	
L3005 VLQSH02R330K COIL 33UH L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L3001	VLQSH02R390K	COIL 39UH	
L3010 ELESN470KA COIL 47UH L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L3002	ELESN101KA	COIL 100UH	
L3231 ELESN221KA COIL 220UH L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L3005	VLQSH02R330K	COIL 33UH	
L4001 VLQSU06R153K COIL 15MH L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L3010	ELESN470KA	COIL 47UH	
L4002 ELESN101KA COIL 100UH L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L3231	ELESN221KA	COIL 220UH	
L4004 VLQSH02R220K COIL 22UF L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L4001	VLQSU06R153K	COIL 15MH	
L4101 ELESN471KA COIL 470UH L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L4002	ELESN101KA	COIL 100UH	
L5901 ELESN101KA COIL 100UH L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L4004	VLQSH02R220K	COIL 22UF	
L5902 ELESN470KA COIL 47UH L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L4101	ELESN471KA	COIL 470UH	
L6201 ELEXT101KE04 COIL 100UH L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L5901	ELESN101KA	COIL 100UH	
L6401 ELEXT101KE04 COIL 100UH L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L5902	ELESN470KA	COIL 47UH	
L6402 VLPS0111 CHIP BEAD INDUCTOR L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L6201	ELEXT101KE04	COIL 100UH	
L6403 VLPS0111 CHIP BEAD INDUCTOR L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L6401	ELEXT101KE04	COIL 100UH	
L6404 VLPS0111 CHIP BEAD INDUCTOR L6405 VLPS0111 CHIP BEAD INDUCTOR	L6402	VLPS0111	CHIP BEAD INDUCTOR	
L6405 VLPS0111 CHIP BEAD INDUCTOR	L6403	VLPS0111	CHIP BEAD INDUCTOR	
L6405 VLPS0111 CHIP BEAD INDUCTOR	L6404	VLPS0111	CHIP BEAD INDUCTOR	
L7002 ELESN100KA COIL 10UH				

CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks
X5501	CSB503F38	CRYSTAL OSCILLATOR	
X5601	VSXS0190-TB	CRYSTAL OSCILLATOR	
X6001	VSXS0784	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P801	VEKS5808	CONNECTOR CABLE W/OUT PLUG,200V	
P803	VLPS0303	CONNECTOR 2P	
P3001	LSJP0085	CONNECTOR 10P (H,I,J,K)	
P3001	VJPS0882	CONNECTOR 12P (L)	
P4001	VJSS0888	FE CONNECTOR 2P	
P4591	VJPS0268	CONNECTOR 2P (H,I,J,K)	
P4591	VJPS0274	CONNECTOR 4P (L)	
P6001	VJPS0275	CONNECTOR 5P	
P6201	LSJP0089	CONNECTOR 12P	
P6202	LSJP0088	CONNECTOR 12P	

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW6001	LSSH0002	LEAF SWITCH-SAFETY TAB	
SW6002	LSSS0008	MODE SWITCH	
SW6301	EVQ21405R	PUSH SWITCH	
SW6302	EVQ21405R	PUSH SWITCH	
SW6303	EVQ21405R	PUSH SWITCH	
SW6304	EVQ21405R	PUSH SWITCH	
SW6305	EVQ21405R	PUSH SWITCH	
SW6306	EVQ21405R	PUSH SWITCH	
SW6307	EVQ21405R	PUSH SWITCH	
SW6308	EVQ21405R	PUSH SWITCH	
SW6309	EVQ21405R	PUSH SWITCH	
SW6310	EVQ21405R	PUSH SWITCH	
SW6311	EVQ21405R	PUSH SWITCH	

FUSE & PROTECTOR

Ref. No.	Part No.	Part Name & Description	Remarks
F801	XBA1C40NU100	FUSE 125V 4A	Δ
F801	VSFS0003A40	FUSE 4A	Δ
F1001	VSFS0003A16	FUSE 125V 1.6A	Δ
F1001	VSFS0032B16	FUSE 125V 1.6A	Δ
F1001	XBA1C16NU100	FUSE 125V 1.6A	Δ
PR1001	UNH000600A	IC PROTECTOR 1.5A	Δ
PR1001	ICP-N38-TP1	IC PROTECTOR 1.5A	Δ
PR1001	LSSF009A25E	IC PROTECTOR 1.5A	Δ
PR1002	UNH000600A	IC PROTECTOR 1.5A	Δ
PR1002	ICP-N38-TP1	IC PROTECTOR 1.5A	Δ
PR1002	LSSF009A25E	IC PROTECTOR 1.5A	Δ

RELAY

Ref. No.	Part No.	Part Name & Description	Remarks
RL801	TSEH0019	RELAY	Δ
RL801	LSSY0004	RELAY	Δ
RL801	TSEH0005	RELAY,120V	Δ
RL801	TSEH8007	RELAY,120V	Δ
RL801	TSE1860-1	RELAY,120V	Δ

TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remarks
T501	ETH09K13AZ	TRANSFORMER	
T502	ETE16Z37AY	TRANSFORMER	A
T551	KFT3AB339F	TRANSFORMER	Δ
T1001	ETS28AD2J3NC	SW TRANSFORMER	Δ
T1001	LSTP0105	SW TRANSFORMER	Δ
T1001	VTPS0041-1	SW TRANSFORMER	Δ
T1001	VTPS0042-1	SW TRANSFORMER	Δ
T4101	VLTS0367	TRANSFORMER	

JACKS

Ref. No.	Part No.	Part Name & Description	Remarks
JK4591	LJP28016A	FRONT AUDIO/VIDEO JACK SOCKET (H,I,J,K)	
JK4591	LJP28015A	FRONT AUDIO/VIDEO JACK SOCKET (L)	
JK4701	LJP68005A	EARPHONE JACK SOCKET (H,I,J,K)	
JK4701	LJP68003A	EARPHONE JACK SOCKET (L)	

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Ref. No.	Part No.	Part Name & Description	Remarks
E11	VEPS4032A	AUDIO C.B.A. (L)	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
244	TUX77809	CLAMPER	
458	XTV3+8J	TAPPING SCREW,STEEL	
483	XYN3+F10S	SCREW W/WASHER,STEEL	
484	XTW3+10J	TAPPING SCREW,STEEL	
487	XYN3+J8	SCREW W/WASHER,STEEL	
488	XYN3+F6S	SCREW W/WASHER,STEEL	
711	PNA4611M00HC	INFRARED RECEIVER UNIT	
719	VMFS0136	SHEET,NYLON-RAYON	
743	ENG36706G	TUNER,UHF/VHF NR (H,K)	
743	ENG36709G	TUNER,UHF/VHF NR (I,J,L)	
751	LML69001A	ANODE LEAD CLAMPER	
767	TUC77626	HEAT SINK	
768	TUC77603-1	HEAT SINK	
769	LUS23005B	HEAT SINK	
771	EYF52BC	FUSE HOLDER	

12.3.3. AUDIO C.B.A.

(Model: L)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	I
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC9001	CXA2064M		
IC9201	AN7420-NT	IC, LINEAR	
IC9301	BU4052BCF	IC, CMOS STANDARD LOGIC	E.S.D.
IC9301	CD4052BCM	IC, CMOS STANDARD LOGIC	E.S.D.
IC9302	UPC4570G2-T1	IC, LINEAR	
IC9302	LM833M	IC, LINEAR	

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q9001	2SD601A	TRANSISTOR SI NPN CHIP	
Q9001	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q9002	2SD601A	TRANSISTOR SI NPN CHIP	
Q9002	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q9003	2SD601A	TRANSISTOR SI NPN CHIP	
Q9003	2SC2412K146R	TRANSISTOR SI NPN CHIP	
Q9004	2SD601A	TRANSISTOR SI NPN CHIP	
Q9004	2SC2412K146R	TRANSISTOR SI NPN CHIP	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D9001	MA165	DIODE SI	
D9001	1SS119	DIODE SI	
D9001	1SS133T	DIODE SI	
D9301	MA165	DIODE SI	
D9301	1SS119	DIODE SI	
D9301	1SS133T	DIODE SI	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R4213	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R4214	ERDS2TJ223	CARBON 1/4W 22K	
R4215	ERDS2TJ102	CARBON 1/4W 1K	
R4220	ERDS2TJ102	CARBON 1/4W 1K	
R4221	ERDS2TJ102	CARBON 1/4W 1K	
R9001	EVNCYAA03B14	VARIABLE 10K	
R9002	ERJ6GEYG683V	MGF CHIP 1/10W 68K	
R9003	EVNDCAA03B14	VARIABLE 10K	
R9004	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R9005	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R9006	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R9007	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R9008	EVMAASA00B53	VARIABLE 5K	
R9009	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R9010	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R9011	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R9012	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R9013	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R9014	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R9015	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R9016	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R9017	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R9018	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R9019	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R9020	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R9021	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R9022	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R9201	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R9202	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R9203	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R9204	ERJ6GEYJ224V	MGF CHIP 1/10W 220K	
R9205	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R9206	EVMAASA00B53	VARIABLE 5K	
R9207	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R9208	ERDS2TJ392T	CARBON 1/4W 3.9K	
R9209	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R9210	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R9211	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R9212	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R9213	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R9303	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R9307	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R9308	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R9309	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R9310	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	

Ref. No.	Part No.	Part Name & Description	Remarks
C4226	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9001	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C9002	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C9003	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C9004	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C9005	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9006	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9007	ECUV1H562KBN	C CHIP 50V 5600PF	
C9008	ECUV1E123KBN	C CHIP 25V 0.012UF	
C9009	ECEA1EKN4R7I	ELECTROLYTIC 25V 4.7UF	
C9010	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9011	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9012	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9013	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9014	ECEA1EKN4R7I	ELECTROLYTIC 25V 4.7UF	
C9015	ECEA1HKA3R3I	ELECTROLYTIC 50V 3.3UF	
C9016	ECEA1EKN4R7I	ELECTROLYTIC 25V 4.7UF	
C9017	ECUV1E473KBN	C CHIP 25V 0.047UF	
C9018	ECUV1H272KBN	C CHIP 50V 2700PF	
C9019	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C9020	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C9201	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C9202	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C9203	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C9204	ECQP1H102JZ3	POLYESTER 50V 1000PF	
C9205	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9206	ECEA1HKA3R3I	ELECTROLYTIC 50V 3.3UF	
C9207	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9208	ECUV1H223KBN	C CHIP 50V 0.022UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C9209	ECUV1H223KBN	C CHIP 50V 0.022UF	
C9210	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9211	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C9301	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C9302	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C9303	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C9304	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C9305	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C9306	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C9307	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C9308	ECUV1H103ZFN	C CHIP 50V 0.01UF	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L9001	ELESN101KA	COIL 100UH	
L9201	ELESN101KA	COIL 100UH	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P4201	VJHS0299	PACK PIN 9P	
P4202	VJHS0290	PACK PIN 10P	
P4203	VJHS0298	PACK PIN 8P	
P4204	VJHS0298	PACK PIN 8P	
P4206	VJHS0295	PACK PIN 5P	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
713	VMAS1912	P.C.B. SUPPORT ANGLE	

12.3.4. CAPSTAN STATOR C.B.A. NR

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC2501	AN3846SC	IC, LINEAR	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R2501	ERJ8GEYJ1R0Z	MGF CHIP 1/8W 1	
R2502	ERJ8GEYJ1R0Z	MGF CHIP 1/8W 1	
R2505	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	

Ref. No.	Part No.	Part Name & Description	Remarks
C2504	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C2506	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C2507	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C2508	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2509	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2510	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2511	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C2517	ECUV1E104KBN	C CHIP 25V 0.1UF	
C2519	ECUV1H102KBN	C CHIP 50V 1000PF	
C2520	ECUV1C225ZFN	C CHIP 16V 2.2UF	
C2521	ECUV1C225ZFN	C CHIP 16V 2.2UF	
C2522	ECUV1C225ZFN	C CHIP 16V 2.2UF	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
491	XYN2+J7	SCREW W/WASHER,STEEL	
731(IC2505)	EZMPS300F12	MR HEAD	
732(P2502)	LSJS0097	CONNECOR 12P	
733	LSMA0384	BACK PLATE, STEEL	

12.3.5. HEAD AMP C.B.A.

(Model: A, B, C, D, E, H, I, J, K)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	P V -C2061	L

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC3501	AN3371SB	IC, LINEAR	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R3502	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R3503	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R3507	ERJ6GEYJ331V	MGF CHIP 1/10W 330	

Ref. No.	Part No.	Part Name & Description	Remarks
C3504	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3506	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3508	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3511	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3512	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3513	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3528	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3529	ECUV1H103ZFN	C CHIP 50V 0.01UF	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L3501	ELESN101KA	COIL 100UH	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P2601	LSJS0096	CONNECTOR 12P	
P3501	LSJS0093	CONNECTOR 10P	
P4091	LSJWM6N085AA	CONNECTOR CABLE W/OUT PLUG,48V	

12.3.6. HEAD AMP C.B.A.

(Model: F, G, L)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC3501	AN3361SB	IC, LINEAR	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R3501	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R3502	ERJ6GEYJ560V	MGF CHIP 1/10W 56	
R3503	ERJ6GEYJ560V	MGF CHIP 1/10W 56	
R3504	ERJ6GEYJ560V	MGF CHIP 1/10W 56	
R3505	ERJ6GEYJ560V	MGF CHIP 1/10W 56	
R3506	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R3507	ERJ6GEYJ561V	MGF CHIP 1/10W 560	

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C3504	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3506	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3507	ECUV1H102KBN	C CHIP 50V 1000PF	
C3508	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3511	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3512	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3513	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3519	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3520	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3523	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3524	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3528	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3529	ECUV1H103ZFN	C CHIP 50V 0.01UF	
C3532	ECUV1E104ZFN	C CHIP 25V 0.1UF	
C3533	ECUV1H103ZFN	C CHIP 50V 0.01UF	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L3501	ELESN101KA	COIL 100UH	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P2601	LSJS0096	CONNECTOR 12P	
P3501	VJSS0883	CONNECTOR 12P	
P4091	LSJWM6N085AA	CONNECTOR CABLE W/OUT PLUG,48V	

12.3.7. CRT C.B.A.

(Model: A, B, C, D, E, F, G)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	PV-C2061	L

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC1473-QNC	TRANSISTOR SI NPN	
Q351	2SC1473A(Q)	TRANSISTOR SI NPN	
Q351	2SC2482-TPE6	TRANSISTOR SI NPN	
Q351	2SC4015-NTV2	TRANSISTOR SI NPN	
Q352	2SC1473-QNC	TRANSISTOR SI NPN	
Q352	2SC1473A(Q)	TRANSISTOR SI NPN	
Q352	2SC2482-TPE6	TRANSISTOR SI NPN	
Q352	2SC4015-NTV2	TRANSISTOR SI NPN	
Q353	2SC1473-QNC	TRANSISTOR SI NPN	
Q353	2SC1473A(Q)	TRANSISTOR SI NPN	
Q353	2SC2482-TPE6	TRANSISTOR SI NPN	
Q353	2SC4015-NTV2	TRANSISTOR SI NPN	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG1ANJ153H	METAL OXIDE 1W 15K	
R352	ERG1ANJ153H	METAL OXIDE 1W 15K	
R353	ERG1ANJ153H	METAL OXIDE 1W 15K	
R354	ERD25TJ272T	CARBON 1/4W 2.7K	
R356	ERD25TJ272T	CARBON 1/4W 2.7K	
R357	ERDS2TJ392T	CARBON 1/4W 3.9K	
R358	ERDS2TJ392T	CARBON 1/4W 3.9K	
R359	ERDS2TJ392T	CARBON 1/4W 3.9K	
R360	ERDS2TJ391T	CARBON 1/4W 390	
R361	ERDS2TJ391T	CARBON 1/4W 390	
R362	ERDS2TJ391T	CARBON 1/4W 390	
R363	ERDS2TJ181T	CARBON 1/4W 180	
R364	ERDS2TJ181T	CARBON 1/4W 180	
R365	ERDS2TJ181T	CARBON 1/4W 180	
R366	ERD25TJ272T	CARBON 1/4W 2.7K	

Ref. No.	Part No.	Part Name & Description	Remarks
C351	VCYSARH391KB	CERAMIC 50V 390PF	
C352	VCYSARH391KB	CERAMIC 50V 390PF	
C353	VCYSARH471KB	CERAMIC 50V 470PF	
C354	VCKSKZM102KB	CERAMIC 2KV1000PF	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P351	VJWS4MS330BB	CONNECTOR CABLE W/OUT PLUG,12V	
P352	VJWS4NS265BB	CONNECTOR CABLE W/OUT PLUG, 180V	
P353	VJSS3333	1PIN SOCKET	
P355	LJP65001A	CRT SOCKET	Δ

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
153	TMM7443-1	CLAMPER	

12.3.8. CRT C.B.A. (Model: H, I, J, K, L)

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK	MODEL	MARK
PVQ-1311	Α	PV-C1351W	G
PV-C1321	В	PV-C2011	Н
PV-C1331W	С	PV-C2021	1
VV-1301	D	PV-C2031W	J
VV-1311W	E	VV-2001	K
PV-C1341	F	P V -C2061	L

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC3063	TRANSISTOR SI NPN	
Q351	2SC3271F(N)	TRANSISTOR SI NPN	
Q351	2SC3619	TRANSISTOR SI NPN	
Q352	2SC3063	TRANSISTOR SI NPN	
Q352	2SC3271F(N)	TRANSISTOR SI NPN	
Q352	2SC3619	TRANSISTOR SI NPN	
Q353	2SC3063	TRANSISTOR SI NPN	
Q353	2SC3271F(N)	TRANSISTOR SI NPN	
Q353	2SC3619	TRANSISTOR SI NPN	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG2ANJ153H	METAL OXIDE 2W 15K	
R352	ERG2ANJ153H	METAL OXIDE 2W 15K	
R353	ERG2ANJ153H	METAL OXIDE 2W 15K	
R354	ERD25TJ272T	CARBON 1/4W 2.7K	
R355	ERD25TJ272T	CARBON 1/4W 2.7K	
R356	ERD25TJ272T	CARBON 1/4W 2.7K	
R357	ERDS2TJ392T	CARBON 1/4W 3.9K	
R358	ERDS2TJ392T	CARBON 1/4W 3.9K	
R359	ERDS2TJ392T	CARBON 1/4W 3.9K	
R360	ERDS2TJ391T	CARBON 1/4W 390	
R361	ERDS2TJ391T	CARBON 1/4W 390	
R362	ERDS2TJ391T	CARBON 1/4W 390	
R363	ERDS2TJ121T	CARBON 1/4W 120	
R364	ERDS2TJ121T	CARBON 1/4W 120	
R365	ERDS2TJ121T	CARBON 1/4W 120	

CAPACITORS

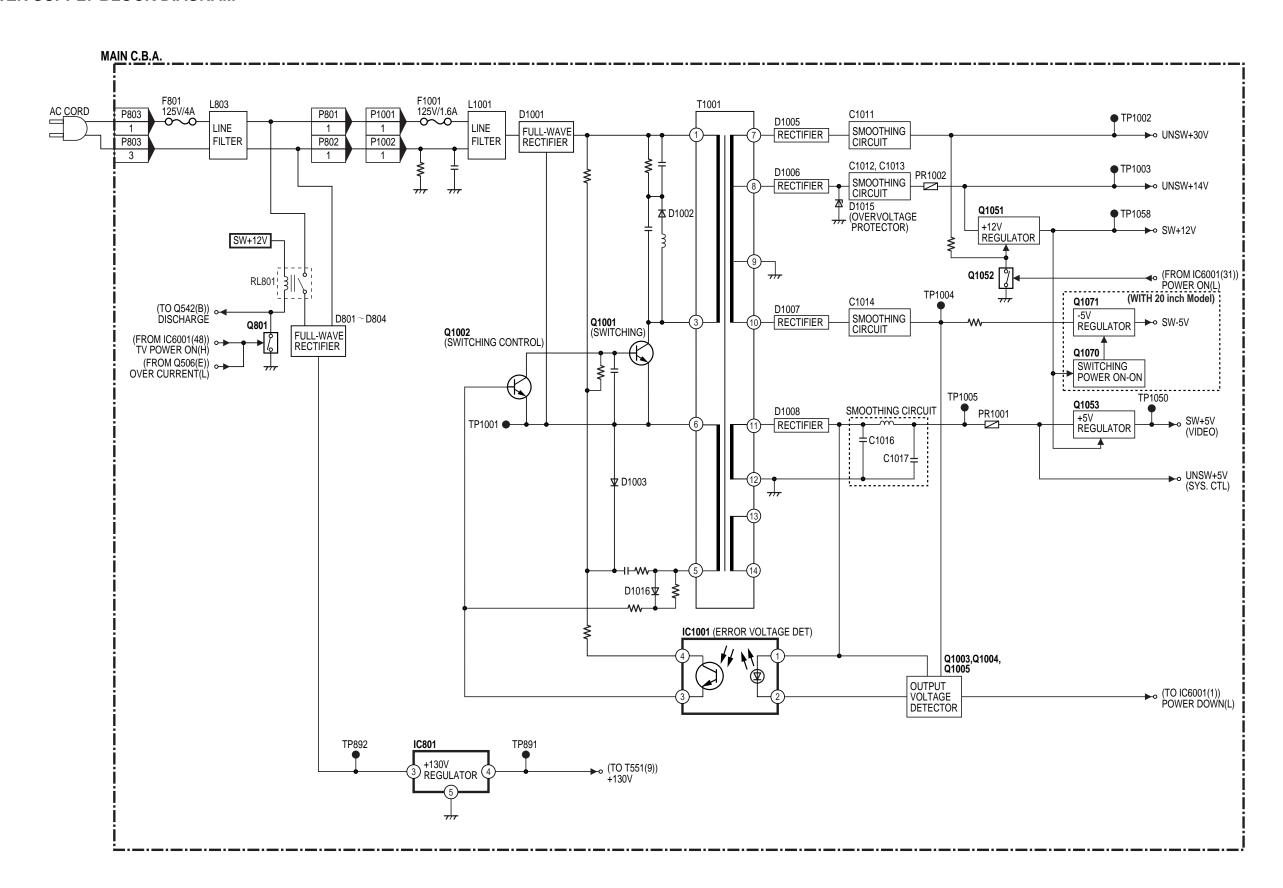
Ref. No.	Part No.	Part Name & Description	Remarks
C351	VCYSARH471KB	CERAMIC 50V 470PF	
C352	VCYSARH471KB	CERAMIC 50V 470PF	
C353	VCYSARH561KB	CERAMIC 50V 560PF	
C354	VCKSKZM102KB	CERAMIC 2KV1000PF	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P351	VJWS4MS410BB	CONNECTOR CABLE W/OUT PLUG,12V	
P352	VJWS4NS370BB	CONNECTOR CABLE W/OUT PLUG,180V	
P353	LJP25007A	CRT SOCKET	
P357	VJSS3333	1PIN SOCKET	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
153	TMM7443-1	CLAMPER	



ON)

PINNO. Control Contr	TV/VC	R MA	IN C	.B.A. (POW	ER S	UPPL'	Y/VI
1 11.4 32 2.4 2 4.0 33 2.0 34 2.8 3 0 3 5.7 4 5.8 35 4 2.5 5 3.0 0 6 5.4 7 5.8 8 23.8 39 2.3 8 3.3 3.3 9 2.2 8 3.3 10 4 2.2 2.2 0 4 2.2 2.2 0 3.3 10 4 2.2 2.2 0 3.3 9 2.3 8 3.3 3.3 10 4 2.2 2.2 0 3.3 10 4 2.2 0 3.3 10 4 2.2 0 4 2.2 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 4 1 1.1 1.1 1.1 <td></td> <td>STOP</td> <td></td> <td></td> <td>STOP</td> <td></td> <td></td> <td>STOF</td>		STOP			STOP			STOF
1 11.4 32 2.4 2 4.0 33 2.0 34 2.8 3 0 3 5.7 4 5.8 35 4 2.5 5 3.0 0 6 5.4 7 5.8 8 23.8 39 2.3 8 3.3 3.3 9 2.2 8 3.3 10 4 2.2 2.2 0 4 2.2 2.2 0 3.3 10 4 2.2 2.2 0 3.3 9 2.3 8 3.3 3.3 10 4 2.2 2.2 0 3.3 10 4 2.2 0 3.3 10 4 2.2 0 4 2.2 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 0 4 2.2 0 4 1 1.1 1.1 1.1 <td></td> <td></td> <td> </td> <td></td> <td>2.0</td> <td>1</td> <td></td> <td></td>					2.0	1		
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\MODE	STOP
PIN NO.	5.51
24	9.1
25	3.8
26	9.0
27	0
28	0
29	0
30	5.8
31	6.2
32	3.6
33	7.3
34	8.1
35	5.2
36	4.3
37	9.7
38	9.0
39	0.2
40	1.5
41	0.2
42	0
43	0.1
44	5.3
45	0.4
46	2.7
47	5.2
48	0.3
Q431	
Е	2.1
С	0
В	1.5
Q432	
Е	0
С	24.6
В	0.1
Q501	
Е	0
С	86.0
В	0
Q502	
E	0.7
С	11.9
В	0.2
Q541	
E	18.2
С	-3.4
В	18.1
Q542	
E	0
С	18.2
В	0.1
Q551	
E	0.1
С	
В	0

MODE STOP PIN NO. Q571 Е

Q581

С

Q1001 Е C 130.7 В

Q1002 Е

С

В

Q1003 Е

С

В Q1004 Ε

С

В

Q1005 Е

С

В Q1051 E 11.9 С

В

С

В

Q1053

С

В

Q1070 Е

Q1071 E -28.8 C -28.6 B -28.1

Q3001 Ε

С

Q1052 Е

1.8 C 10.8 В

1.2

0 B 121.1 Q801 Е

0

0.1 8.0

0.3

0

0.3

0.6

-0.6

4.2

4.4

0.1

4.2

5.3

5.3 4.7

15.1

12.5

0

12.5

0.6

5.2

5.3

6.0

11.9 C 11.9 B 11.3

1.0

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E 121.6 С

MODE	STOP	
PIN NO.		
В	1.7	
Q3002		
Е	1.8	
С	5.1	
В	2.5	
Q3301		
Е	0	
С	4.3	
В	-0.3	
Q4001		
E	5.2	
С	5.2	
B Q4002	4.5	
Q4002 E	0.8	
C	0.6	
В	0	
Q4003		
E	0.8	
C	0.0	
В	0	
Q4101		
Е	0.2	
С	0.2	
В	0	
Q4171		
Е	0.2	
С	0	
В	0	
Q5301		
Е	3.8	
С	9.1	
В	3.2	
Q5901		
E	9.1	
C	11.7	
В	9.7	
TDE01	120 9	
TP501 TP502	120.8	
TP551	-19.0	
TP552	-19.8	
TP553	5.3	
TP554	22.3	
TP556	186.4	
TP558	24.2	
TP559	14.8	
TP560	0.1	
TP806	63.4	
TP807	63.5	
TP808	3.5	
TP809	0	
TP810	0.1	
TP891	121.5	
TP892	130.1	

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Γ	MODE	STOP	
		0101	
L	PIN NO.\		l
	TP893	0	
-	ΓP1001	0	l
-		_	ŀ
⊢	ΓP1002	33.0	ŀ
L	ΓP1003	15.1	
-	ΓP1004	-28.8	
-	ΓP1005	5.3	Ì
			ŀ
-	ΓP1008	5.3	ļ
	ΓP1009	0	
-	ΓP1050	5.2	
-	TP1058	11.9	ľ
-			ŀ
	ΓP3001	1.7	ŀ
Ľ	ΓP3002	2.5	
-	TP3003	3.4	
	ΓP3004	2.0	ľ
			ŀ
	ГР3005	0.1	
Ľ	TP3006	2.5	l
[-	ΓP3007	2.9	l
	ГР3008	2.4	l
			l
	ГР3009	0	l
L	ΓP3010	3.0	
-	ΓP3011	2.7	
	ΓP3012	3.0	Ì
			ŀ
-	ΓP3212	3.0	ŀ
Ľ	ΓP4002	0	
-	ΓP4003	0	
-	ΓP4501	0	ľ
			ŀ
-	ΓP4505	6.0	l
Ľ	TP4506	1.6	
-	ΓP4507	14.7	
	ΓP4591	0.1	l
-			ŀ
	ΓP4592	1.7	l
Ľ	ΓP4706	0	
-	ΓP4707	0	
- 1	ΓP5301	3.5	l
			l
-	ΓP5302	3.5	l
Ľ	TP5303	3.5	l
-	ΓP5304	11.7	l
[-	TP5305	0	I
	ΓP5307		l
			l
-	TP5308	1.5	l
Į-	ΓP5309	1.7	l
[-	ΓP5310	7.2	l
-	гР5311	3.5	l
			l
-	ΓΡ5401	4.0	l
Ľ	ΓP5402	1.5	l
[-	ΓP5403	0	l
-	ΓP5501	0.7	İ
-			l
- 1	ΓP5502	0.1	l
Ľ	TP5503	1.8	l
-	ΓP5504	-0.1	l
-	TP5505	0	Ī
-		5.3	l
⊢	TP5506	ე.კ	l
L			l
			l
F			ı

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

TV/VCR M RO N)

TV/VC	R MA	IN C.	B.A
MODE	REC	PLAY	
PIN NO.	0		
IC2601			
1	14.1	14.2	ŀ
2	14.1	14.2	ŀ
3	14.7	14.7	
4	1.2	1.2	ŀ
5	5.3	5.3	
6	1.0	1.0	ŀ
7	1.1	1.1	
8	0.6	0.6	
9		2.8	
	2.7		ŀ
10	1.5	1.5	ŀ
11	0	0	
12	3.9	3.9	
13	4.0	4.0	
14	4.0	4.0	
15	0.1	0.1	
16	14.1	14.2	
IC6001			l
1	5.3	5.3	l
2	5.2	5.2	l
3			l
4			
5	4.6	5.0	
6	0	0	İ
7	0	0	İ
8	0	0	İ
9	0	0	İ
10	0	0	İ
11	0	0	İ
12	5.2	5.2	İ
13	0	0	İ
14	0	0	i
15	0	0	ŀ
16	0	0	ŀ
17	5.1	5.1	ŀ
18	5.2	5.3	
19	5.1	5.1	ŀ
20	5.3 5.2	5.3 5.2	
21			
22	1.1	1.0	
23	5.1	5.1	
24	0 2.5	0	
25		2.5	
26	2.6	2.6	
27	0	0	
28	5.2	5.2	
29	0	2.6	
30	0	2.6	
31	0	0.1	
32	5.2	0	
33	0.5	0.5	
34	0	0	
35	1.9	1.9	
36	0	0	
37	2.4	2.4	
			-

/1/-	AIN C.	B.A.	(SYS)	FIVI	CONT
)	PLAY		MODE PIN NO.	REC	PLAY
			38	2.5	2.5
1	14.2		39	0.1	2.4
<u>' </u>	14.2		40	5.2	5.2
<u>'</u> 7	14.7		41		
2	1.2		42		
3	5.3		43	0	0.1
<u>. </u>	1.0		44	0.3	0.1
1	1.1		45	0.3	0.3
<u> </u> 6	0.6		46	0	0.1
7 7	2.8		47	4.5	4.5
5	1.5		48	4.8	4.8
	0		49	4.0	4.0
9	3.9		50	4.3	4.2
<u>9</u> 0			51	0	
0	4.0				0
1	4.0 0.1		52 53	2.0	0.1
<u>'</u> 1	14.2		54		
1	14.2			2.0	2.7
2	5.2		55 56		2.7
3 2	5.3 5.2			-0.2	0.2
	5.2		57 58	5.0	0
				5.1	0
-	F 0		59	2.5	0
6	5.0		60	2.5	0.1
	0		61	0	2.3
	0		62	0.1	0.1
	0		63	0	0
	0		64	0	0
	0		65	4.9	0
	0		66	2.3	0
2_	5.2		67	5.2	0
	0		68	0.1	0
	0		69	0	0
	0		70	0	0
_	0		71	0.1	0
1	5.1		72	0	0
2 1	5.3		73	0	0
	5.1		74	0	0
3	5.3		75 76	0	0
2	5.2		76	0	0
1 1	1.0		77	0	0
1	5.1		78	2.6	2.6
	0		79	2.6	0.1
5_	2.5		80	0	0
6	2.6		81	2.6	0
	0		82	5.2	5.2
2_	5.2		83	3.0	
	2.6		84	2.2	2.6
	2.6		85	2.6	2.6
	0.1		86	0.4	0.3
2 5	0		87	5.2	5.2
5	0.5		88	2.5	2.5
	0		89	0	0
9	1.9		90	5.2	5.2
	0		91	5.2	5.2
4	2.4		92	2.9	3.0

MODE	REC	PLAY
PIN NO.\		
93	0.5	0.4
94	0.4	0.3
95	4.1	4.1
96	5.2	5.3
97	5.2	5.3
98	4.6	5.3
99	4.7	5.3
100	5.2	5.2
100	5.2	5.2
	F 1	F 2
102	5.1	5.2
103	0.7	5.2
104	5.2	5.1
105	5.2	5.1
106	0.2	0
107	5.1	4.9
108	0.2	0
109	0.2	0
110	0.2	0.2
111	0.2	0
112	0.3	0.8
IC6002		
1	1.2	1.2
2	0	0
3	0	0
4		
IC6003		
	2.4	2 4
1	2.4	2.4
2	1.2	1.2
3	0	0
4		
IC6004	_	_
1	0	0
2	0	0
3	0	0
4	0	0
5	5.3	5.3
6	5.2	5.2
7	0	0
8	5.3	5.3
IC6005		
1	5.3	5.3
2	5.3	0
3	0	0
4	0	0
5	0.1	0
6	0	0
06004		
Q6001	44.4	
E	11.1	
С	11.8	0.3
В	11.9	11.9
Q6002		
E	4.5	0
С	11.1	

MODE

PIN NO. Q6003

С

Q6004 Е

В

Q6005 Е

С

Q6006

С В

Q6009 E 0

Q6010 Ε

С

TP6001 5.2

TP6002 5.2

TP6004 ---TP6005 ---TP6006 0

TP6008 0 TP6009 5.3

TP6013 0

TP6021 0

TP6022 5.0

TP6099 5.3

TP6201 2.4

TP6202 2.5

TP6203 2.6

TP6204 1.2

TP6205 2.6

TP6206 3.0

TP6207 2.6

TP6208 2.7

TP6209 2.5

TP6210 0.3

TP6211 2.8

TP6401 2.0 2.0

TP6023 0

TP6003 2.9

REC

0

0.1

0.8

5.2

5.2

4.5

5.3

5.2

4.4

0 5.2

0

0

5.1 5.2

C 5.2

PLAY

0.1

8.0

5.2

5.2

4.5

5.3

5.2

4.4

5.2

0

0

5.2

0

5.2

5.1

3.1

0

5.3

2.6

0

5.0

0

5.3

2.4

2.5

2.6

1.2

2.6

2.6

2.6

2.7

2.5

0.3

2.7

TOR C.B.A.

CAPS		
\ <u>MODE</u> PIN NO.\	REC	PLAY
P2502		
1	13.6	13.6
2	5.2	5.2
3	5.3	5.2
4	2.5	2.4
5	0	0
6	2.6	2.6
7	0	0
8	0.5	0.5
9	2.6	2.6
10	0.1	0.1
11	0	0
12	0	0
P2503		
1	1.8	1.7
2	1.8	1.7
·		

HEAD			HEAD	
C.B.A.		C.B.A		
(A,B,C,E)	D,E,H,I,	J,K)	(F,G,L	.)
MODE	STOP		MODE	STOP
PIN NO.	0101		PIN NO.	0101
IC3501	0		IC3501	0
1	0		1	0
2	0		2	0
3	0.5		3	0.5
4	0		4	0
5	0		5	0
6	0		6	0
7	0.5		7	0.5
8	0		8	0
9	0		9	0
10	0		10	0.5
11	0		11	0
12	0		12	0
13	0		13	0.1
14	2.4			
	2.4		14	0.1
15	2.4		15	
16	2.4		16	2.4
17	2.4		17	2.4
18	0		18	0
19			19	
20			20	
21			21	
22	0		22	
23	0		23	
24	0		24	
25	0.2		25	0.2
26	0.2		26	5.1
	0			0
27	0		27	0
28			28	
29	0		29	0
30	2.5		30	2.5
31	5.2		31	5.2
32	0		32	4.9
33	0		33	0.2
34	0		34	0.1
35	11.9		35	11.9
36	0.1		36	0.1
TP3501	0		TP3501	0
<u> </u>				
ļ		ļ		
		•		

HEAD AMP

C.B.A.

HEAD AMP

MODE	O C.E
	3108
N NO.\	
29001	4.0
1	4.2
2	4.1
3	3.5
4	9.0
5	1.3
6	0
7	0
8	4.6
9	1.3
10	4.9
11	0.1
12	5.2
13	4.2
14	4.2
15	4.1
16	4.2
17	0
18	0.2
19	0
20	4.1
21	1.9
22	4.2
23	4.2
24	4.2
	4.2
25	
26	1.9
27	4.2
28	4.1
29	4.2
30	4.1
29201	
1	3.1
2	3.8
3	5.2
4	4.4
5	0
6	5.2
7	4.5
8	2.8
9	2.8
9301	
1	0
2	0.2
3	0
4	0
5	0
6	0.1
7	
	-5.7
8	0
9	0
10	0
11	0

CRT (C B A		CRT (: B A
	D,E,F,G		(H,I,J,	
		<i>)</i> 1		
MODE	STOP		MODE	STOP
PIN NO.			PIN NO.\	
Q351			Q351	
E	3.1	1	E	3.1
С	131.1		С	131.1
В	3.5	İ	В	3.5
Q352		İ	Q352	0.0
E	3.1	i	E	3.1
		ł		
С	127.9	}	C	127.9
В	3.5	ļ	В	3.5
Q353		ļ	Q353	
E	3.0	1	E	3.0
С	131.9		С	131.9
В	3.5	1	В	3.5
	0.0	İ		0.0
TP47	0		TP47	0
TP49	3.5	ł	TP49	3.5
TP50	131.9		TP50	131.9
		1		
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NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

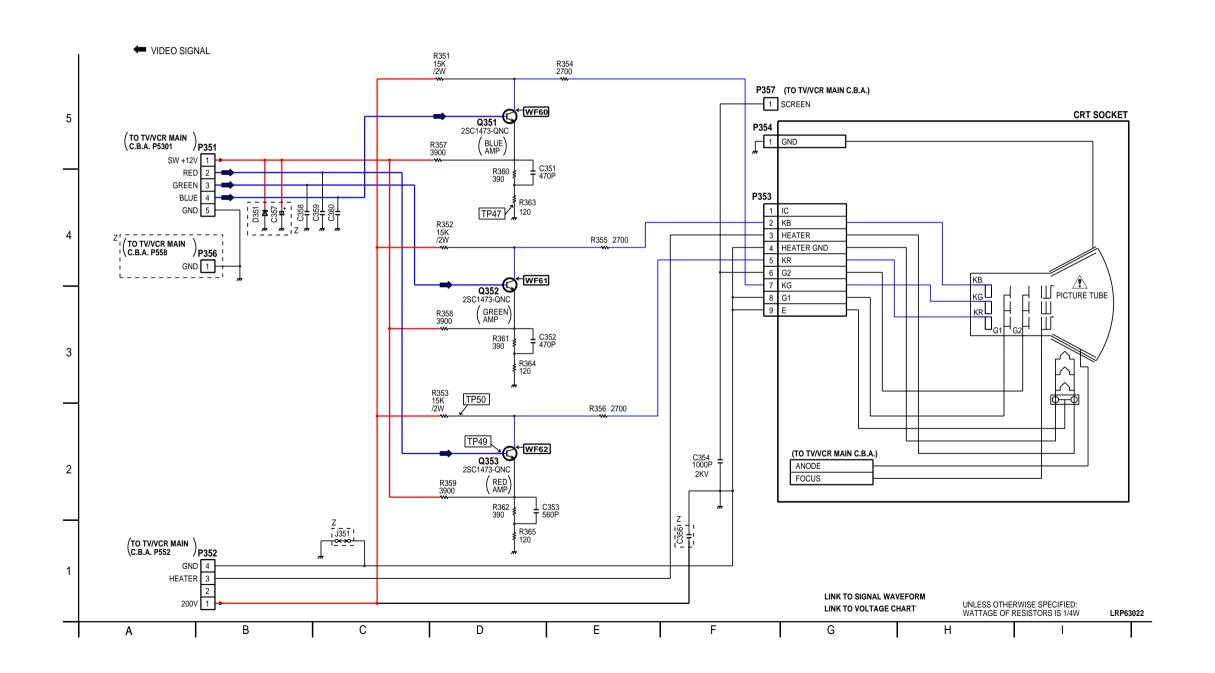
PVQ-1311 A PV-C1321 B PV-C1331W C VV-1301 D VV-1311W E PV-C1341 F PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J		MODEL	MARK
PV-C1331W C VV-1301 D VV-1311W E PV-C1341 F PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J		PVQ-1311	Α
VV-1301 D VV-1311W E PV-C1341 F PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J		PV-C1321	В
VV-1311W E PV-C1341 F PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J		PV-C1331W	С
PV-C1341 F PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J	١	VV-1301	D
PV-C1351W G PV-C2011 H PV-C2021 I PV-C2031W J	١	VV-1311W	E
PV-C2011 H PV-C2021 I PV-C2031W J		PV-C1341	F
PV-C2021 I PV-C2031W J		PV-C1351W	G
PV-C2031W J		PV-C2011	Н
		PV-C2021	- 1
		PV-C2031W	J
VV-2001 K	١	VV-2001	K
PV-C2061 L		PV-C2061	L

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

NOT

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	Е
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L
Not Used	Z

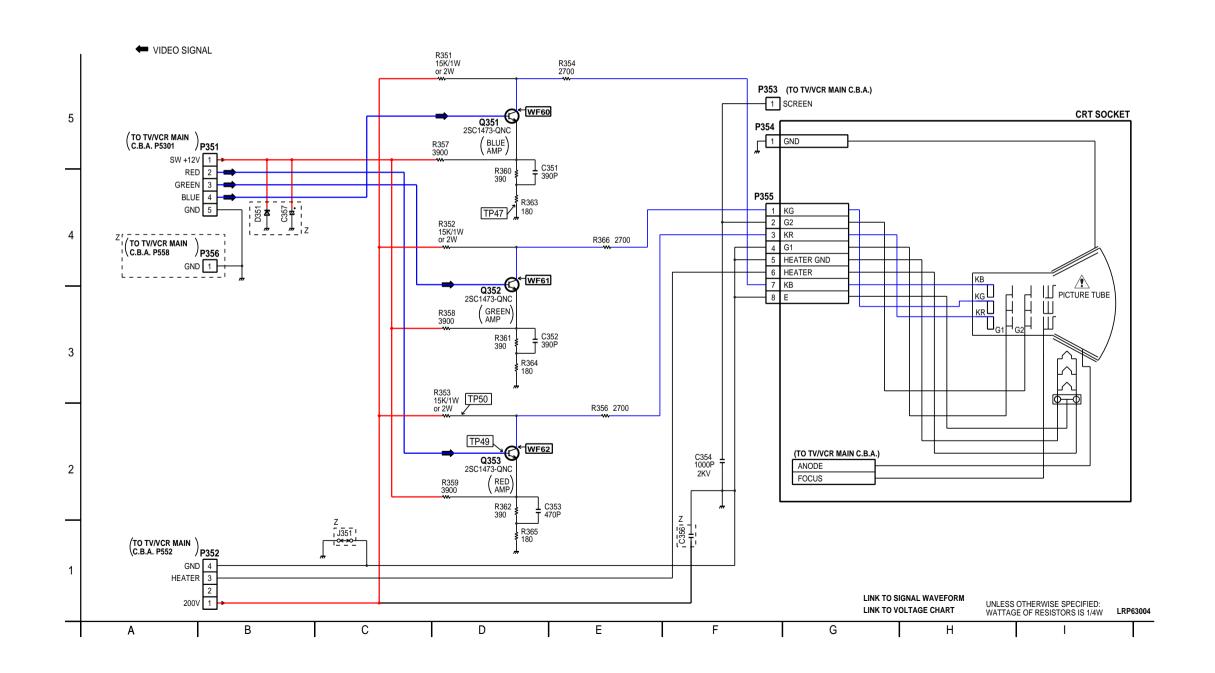


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

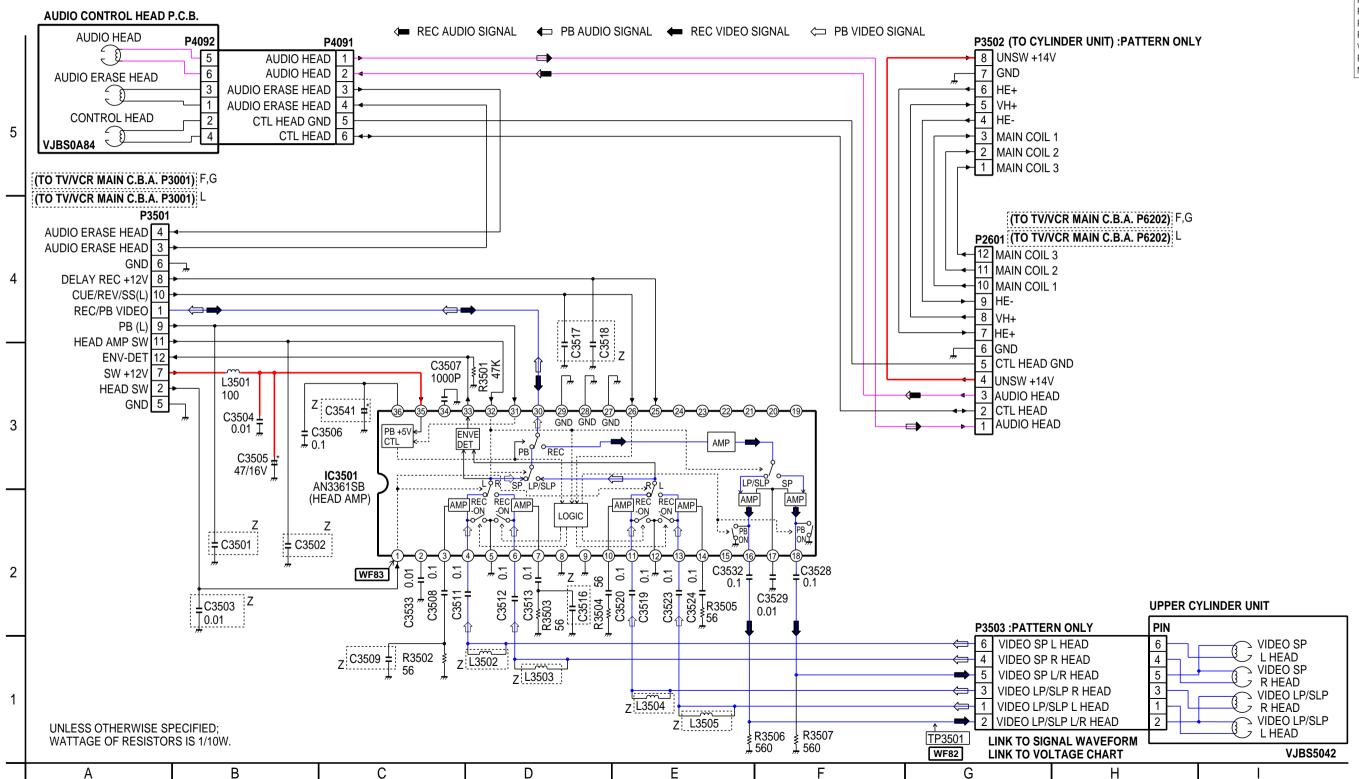
MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L
Not Used	Z



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	Е
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	I
PV-C2031W	J
VV-2001	K
PV-C2061	L
Not Used	Z

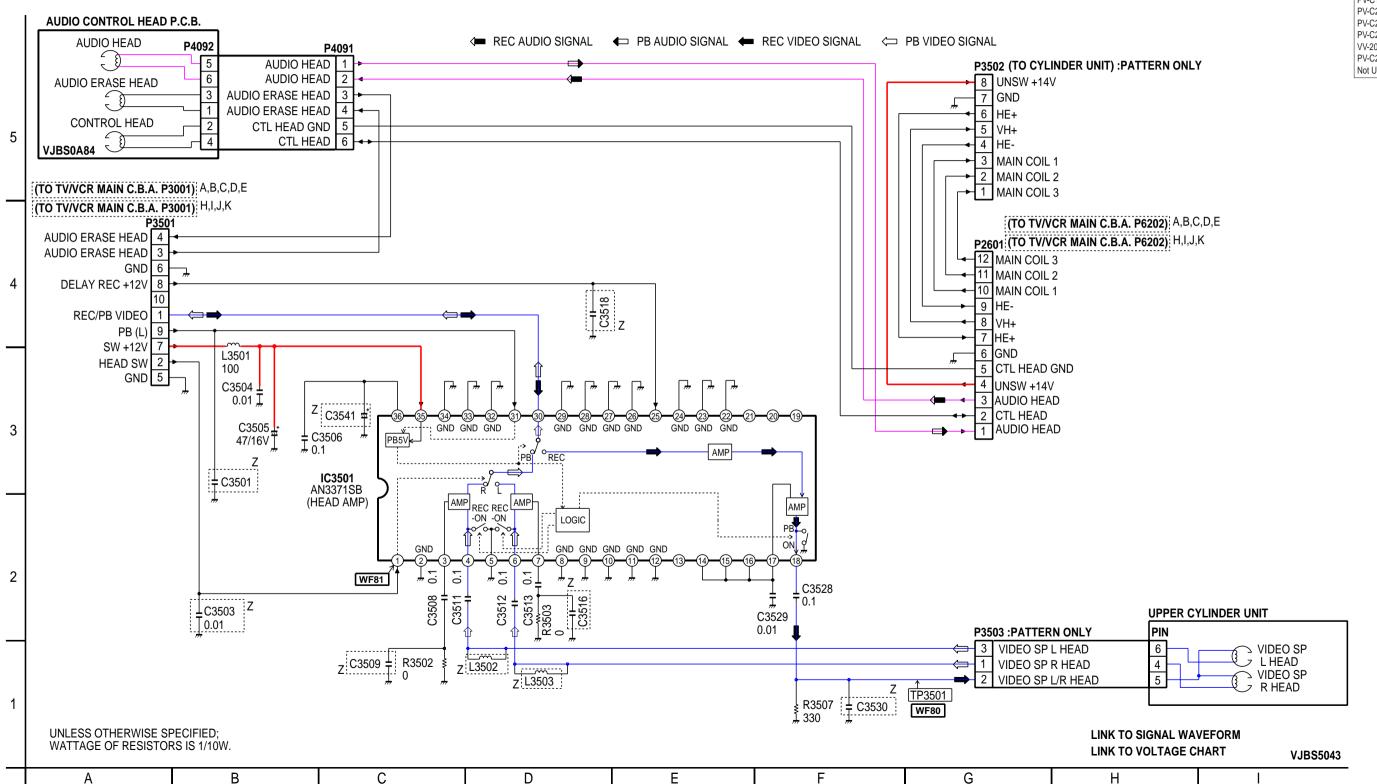


NOTE: FOR SCHEMATIC DIAGRAM AND CIRC

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

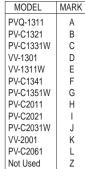
COMPARISON CHART OF MODELS & MARKS MODEL MARK

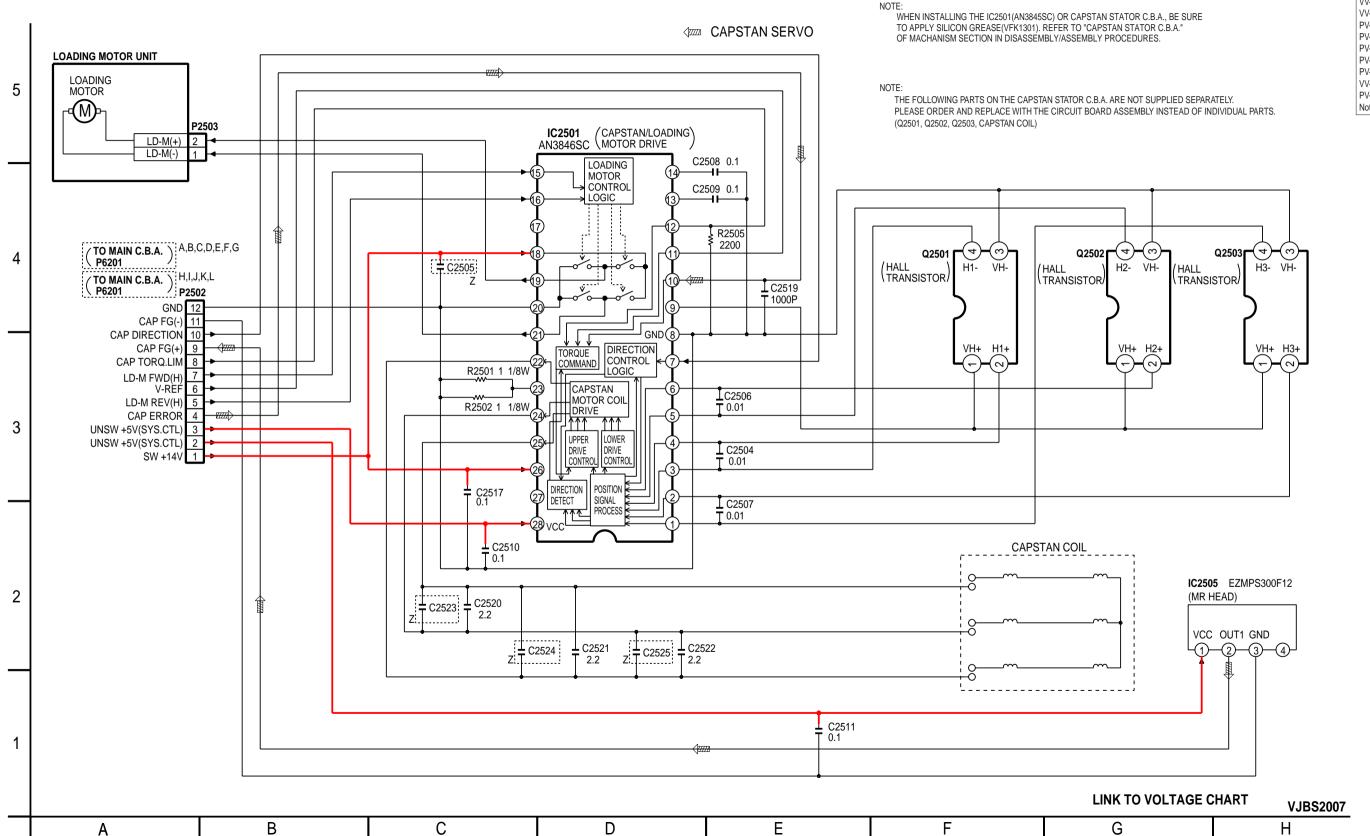
PVQ-1311 PV-C1321 В PV-C1331W С VV-1301 VV-1311W PV-C1341 PV-C1351W G PV-C2011 PV-C2021 PV-C2031W VV-2001 PV-C2061 L Not Used

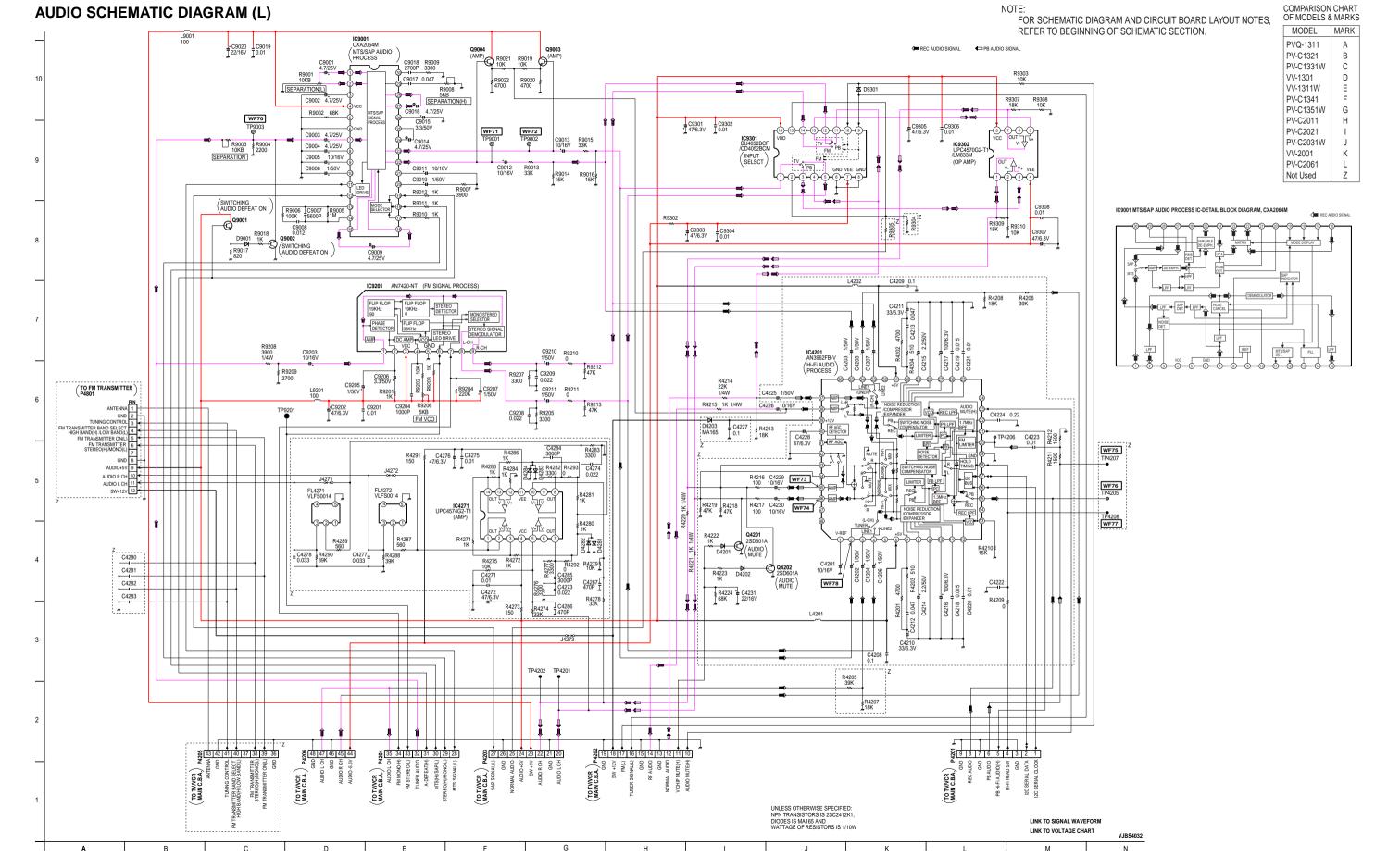


NOTE

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.







MAIN I (SYSTEM CONTROL/SERVO/CCV/OSD/OPERATION/CYLINDER DRIVE) SCHEMATIC DIAGRAM (H, I, J, K, L) FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION. KEY MATRIX CHART 0.6~1.8V VOLUME DOWN CH DOWN VOLUME UP TV/FM OPERATION BUTTON REC /REPEAT STOP /EJECT P6001 IS USED FOR ADJUSTMENT ONLY AT FACTORY ONLY NO CONNECTION P6001
IZC SERIAL CLOCK Telescope IZC SERIAL DATA Zeromannia POWER R8008 R8007 220 R8006 220 R8005 10K R6169 R6170 R6171 4700 4700 4700 I2C SERIAL CLOCK 4 I2C SERIAL DATA 6 --TO MAIN II SERIAL DATA 0 9 • - 35 AUDIO HEAD R6211 R6210 24K 33K 38 MTS(H)/SAP(L)
39 FM TRANSMITTER
39 FM TRANSMITTER
40 FM TRANSMITTER ON(L)
41 FM TRANSMITTER BAND SELECT
HIGH BAND(H)/LOW BAND(L)
42 AUDIO MUTE(H) HEAD SW 11 --V-LOCK PULSE 12 --TO MAIN II C6013 T C6014 T C6015 T/2 T C6201 2 D6004 ◆ 44 ENVELOPE DET TO MAIN II Hi-Fi HEAD SW 14 45 HEAD AMP SW TO MAIN IV POWER ON(L) 15 TV SIGNAL(L) 16 TO MAIN III DE SW POSITION A (08)

RE SW POSITION B (0)

E SW POSITION C (0)

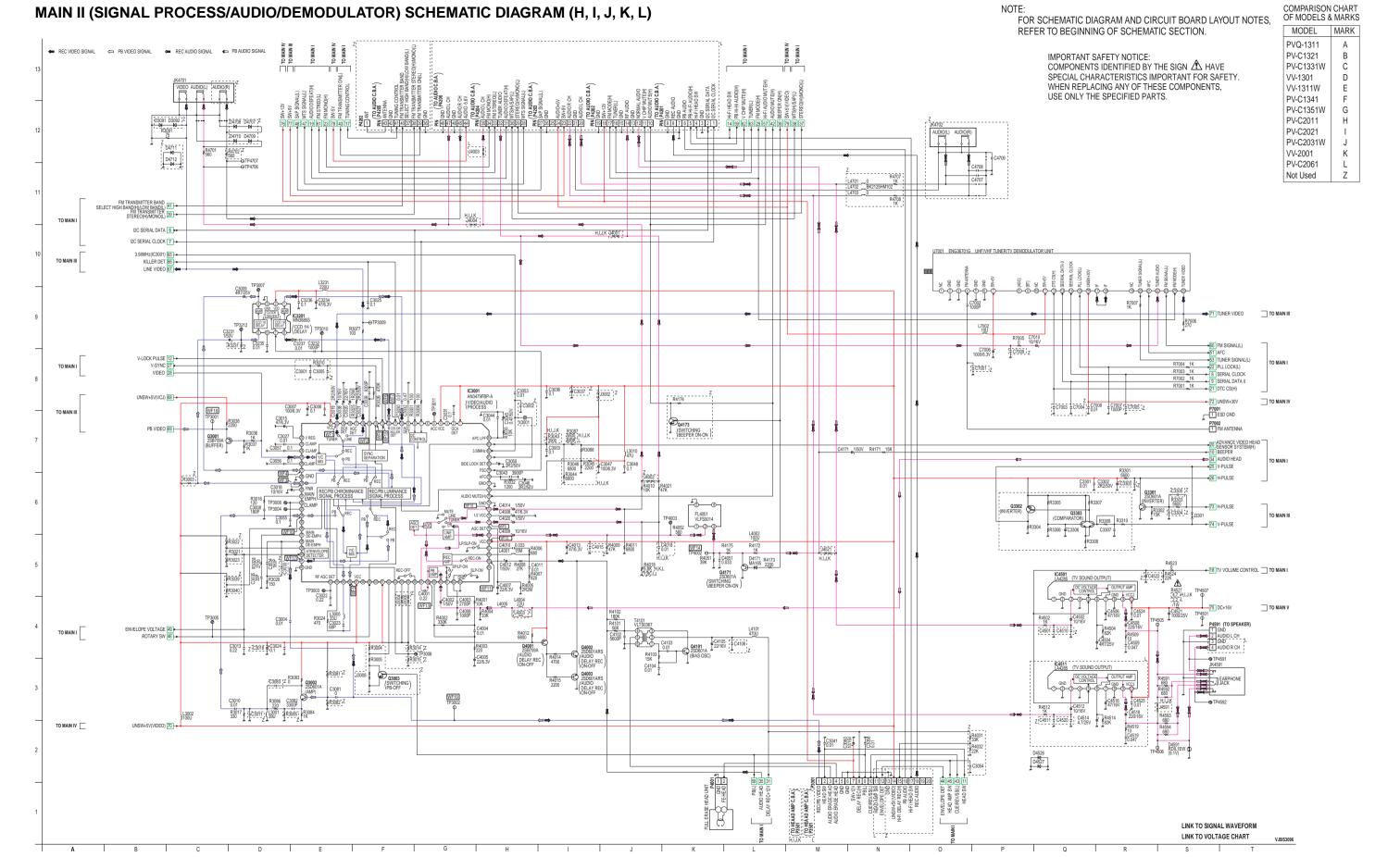
MTS SIGNALLI (0)

RE105 1K TUNING CONTROL 17 TV VOLUME CONTROL 18. AUDIO DEFEAT(H) 19 • 47 MTS SIGNAL/L SAP SIGNALILI (104) R6104 1K 48 SAP SIGNAL(L) REC LED ON(L) (0) R6103 470
ON-TIMER LED ON(L) (0) R6102 470 ADVANCE VIDEO HEAD SENSOR SYSTEM(H) 20 -ROGRAM TIMER (0) R6101 0 TO MAIN II Z C6036 TV POWER ON(H) 24 TO MAIN III V-PULSE 25 ◆49 ENVELOPE VOLTAGE TO MAIN II TRU VSERVICEU (9) R6090 1200 TO MAIN V TO MAIN II TO MAIN II ----51 AFC SW6310 EVQ21405R STOP/EJECT | SW6311 EVQ21405R POWEB | 1800 SW6301 EVQ21405R [CH DOWN] SW6302 EVQ21405R [VOLUME DOWN] SW6304 EVQ21405R CHUP VIDEO 28 → SW6305 EV021405R IVOLUME UP SW6306 EV021405R ITV/FM 39300 TO MAIN IV TV POWER ON(H) 30 -R6150 9.1K JH,K 27K JJ,L →52 SW+5V(VIDEO R6118 OTP6001
R6119 C6040
22K T1000P D6009 MA165 TO MAIN II DELAY REC+12V 31 -IC6003 RPI-303 (SUPPLY (REEL SENSOR) Q6002 2SD601A (SWITCHING V DELAY REC ON-ON TO MAIN IV •54 OSD BLUE 55 OSD GREEN ◆56 OSD RED ◆57 Hi-Fi AUDIO MUTE(H) 60 FM SIGNAL(L) 61 FM STEREO(L L6201 100U ◆64 BLANKING PULSE LINK TO VOLTAGE CHART

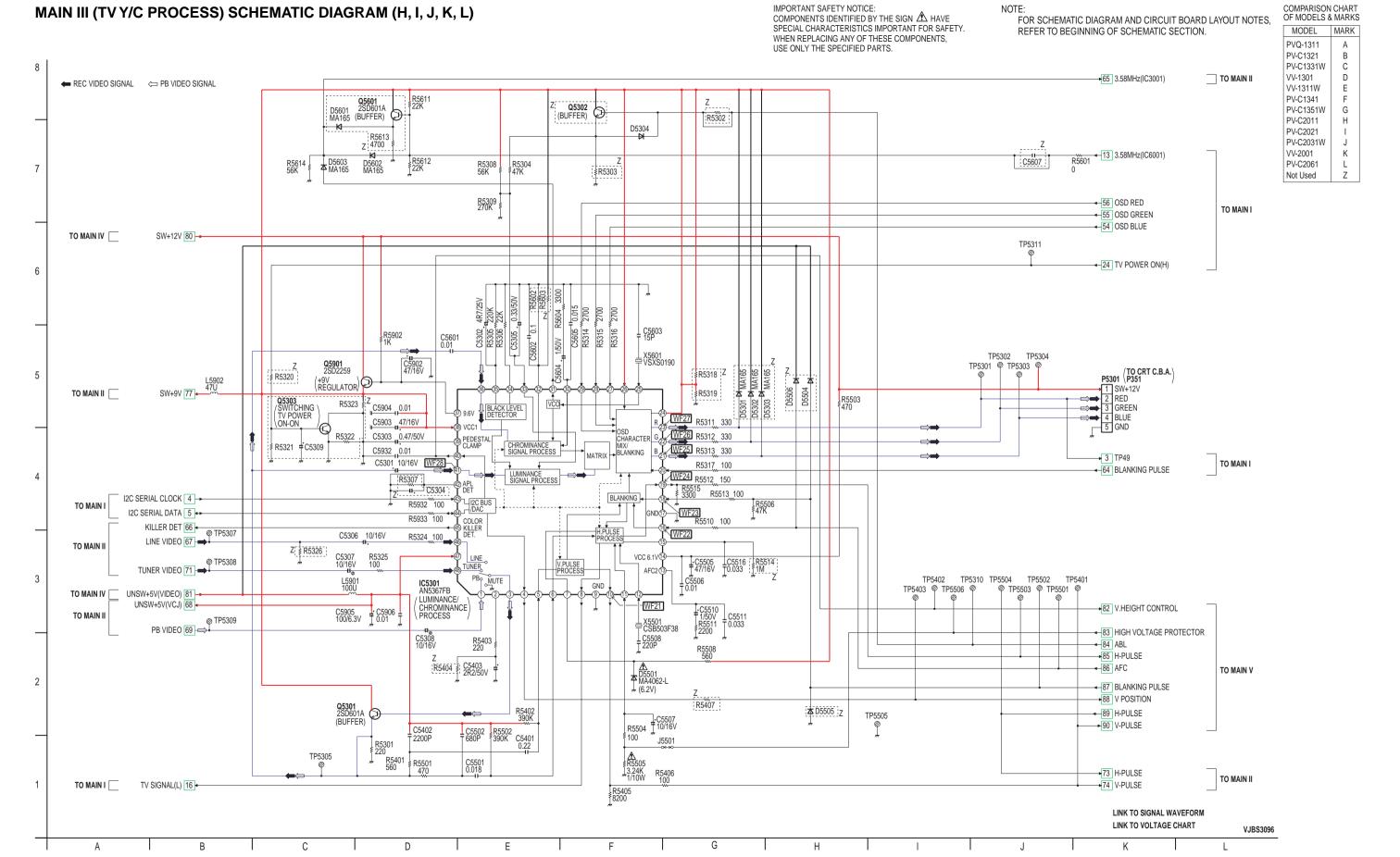
COMPARISON CHART
TROADD LAVOUT NOTES OF MODELS & MARKS

MODEL MARK
PVQ-1311 A
PV-C1321 B
PV-C1331W C
VV-1301 D
VV-1311W E
PV-C1351W G
PV-C2031W G
PV-C2001 I
PV-C2001 J
VV-2001 K
PV-C2061 L

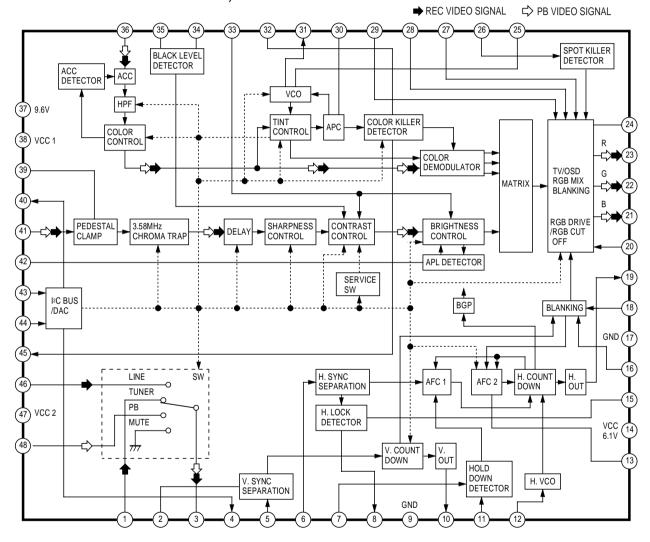
Not Used



IC3001 VIDEO/AUDIO PROCESS IC-DETAIL BLOCK DIAGRAM, AN3479FBP-A REC VIDEO SIGNAL PB VIDEO SIGNAL REC AUDIO SIGNAL PB AUDIO SIGNAL vcc (22) VREG CNR TUNER I²C BUS COMPOSITE 3.58MHz BPF BURST UP/DOWN REC V CHROMA -ATT PHASE COMPONENT PB AGC DET COMPEN-SATOR PB COLOR COMPONENT. vxo ARTIFICIAL V/H SYNC MIX KILLER Y/C MIX X2 BPF 2FSC OCOMPOSITE SW O PB ACC DET CLAMP 4.8MHz DETECTOR REC TRAP SUB SUB CONV 1/40 AFC ACC GAIN CTL AMP REC (79) SYNC SEPARATION 1 РРВ ▶ 1/4 SIDE LOCK (28) GND MAIN REC CONV REC DELAY LPF GCA DET **→**GCA REC YNR IGND 777 DOC SW OFFO CLAMP ₽В√ ROTARY CCD → HPF → LIMITER LPF FREQUENCY ANR DET -(75)4 PHASE CONV **-**-○ SELECT REC PB ΡВ NON LINEAR GND (74) COLOR KILLER DE-EMPHASIS NON LINEAR **→**LIMITER → DETECTOR **EMPHASIS** O PB ▼ OMUTE SUB LPF 1/2 VCC 72 RF IN W/D MAIN EMPHASIS O-(INTUNER REC RF EQUALIZER FM MODULATOR CLAMP LP/SLP JREC MAIN DE-EMPHASIS AGC **⋖** DET O____ REC 629kHz AMP LPF COLOR KILLER SW LINE TRAP AMP REC RF LP/SLP U REC & VCC (68) DOUBLE FM DEMODULATOR LPF 629KHz TRAP PB 7/// ENVE ΡВ AGC DETECTOR DETECTOR DET LP/SLP AT ENVE DETEC--ON TOR VHS) S-VHS PEAKING BPF REC /GAIN CTL AMP Y/C MIX SP/LP-ON AMP PB AMP REC-ON REC-ON 8MHz REC RE PHASE (42) GND REC-ON REC-ON TRAP COMPENSATOR ROTARY SLP-6 ON



IC5301 LUMINANCE/CHROMINANCE PROCESS IC-DETAIL BLOCK DIAGRAM, AN5367FB



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

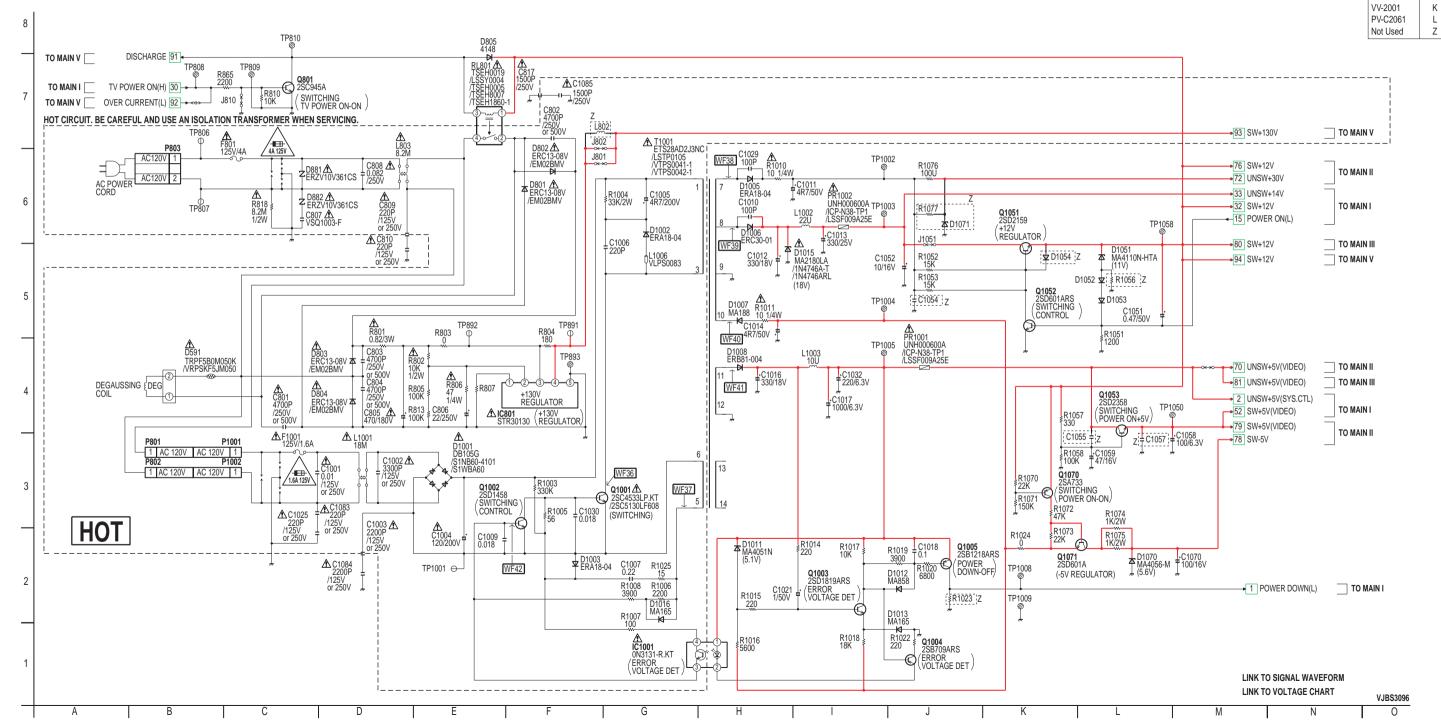
COMPARISON CHART OF MODELS & MARKS

MODEL MARK
PVQ-1311 A
PV-C1321 B
PV-C1331W C
VV-1301 D
VV-1311W E
PV-C1341 F
PV-C1351W G
PV-C2011 H
PV-C2021 I
PV-C2031W J

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 4A 125V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 4A 125V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 1.6A 125V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME
TYPE 1.6A 125V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



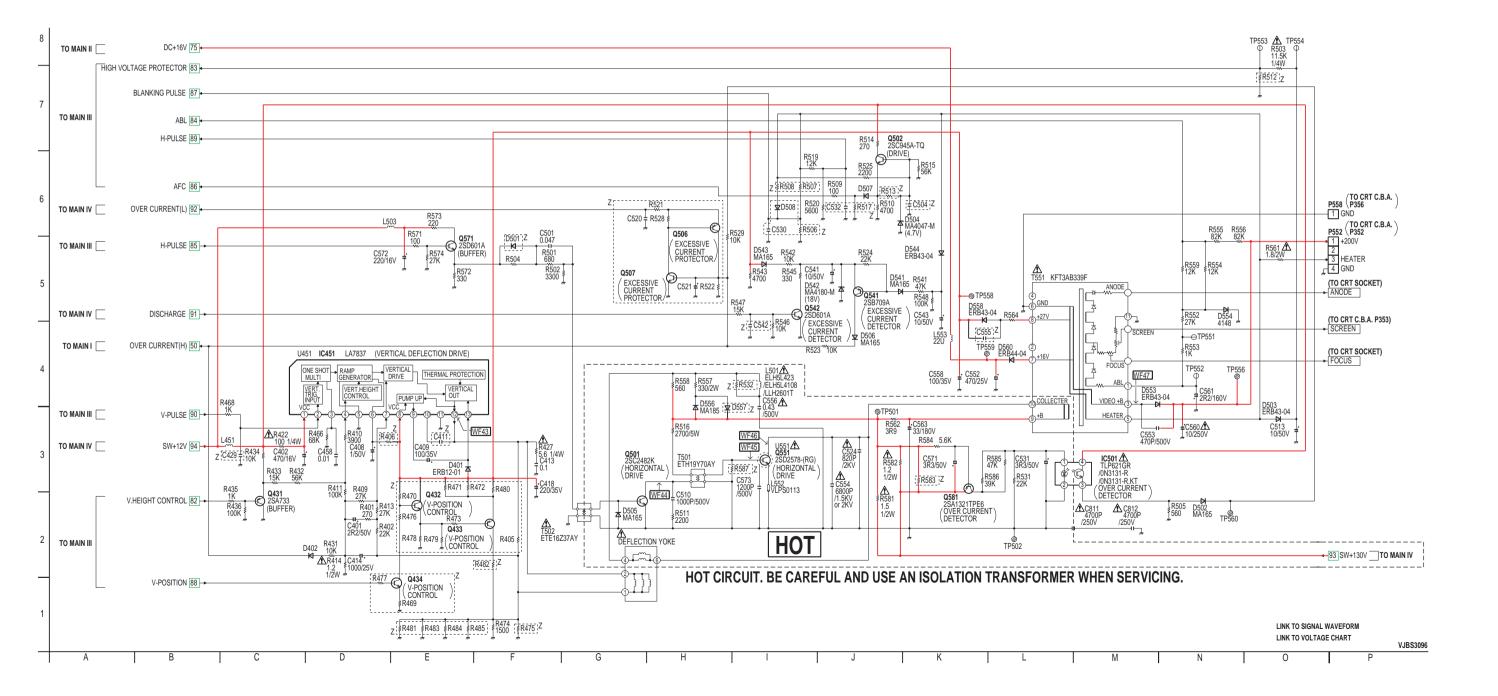
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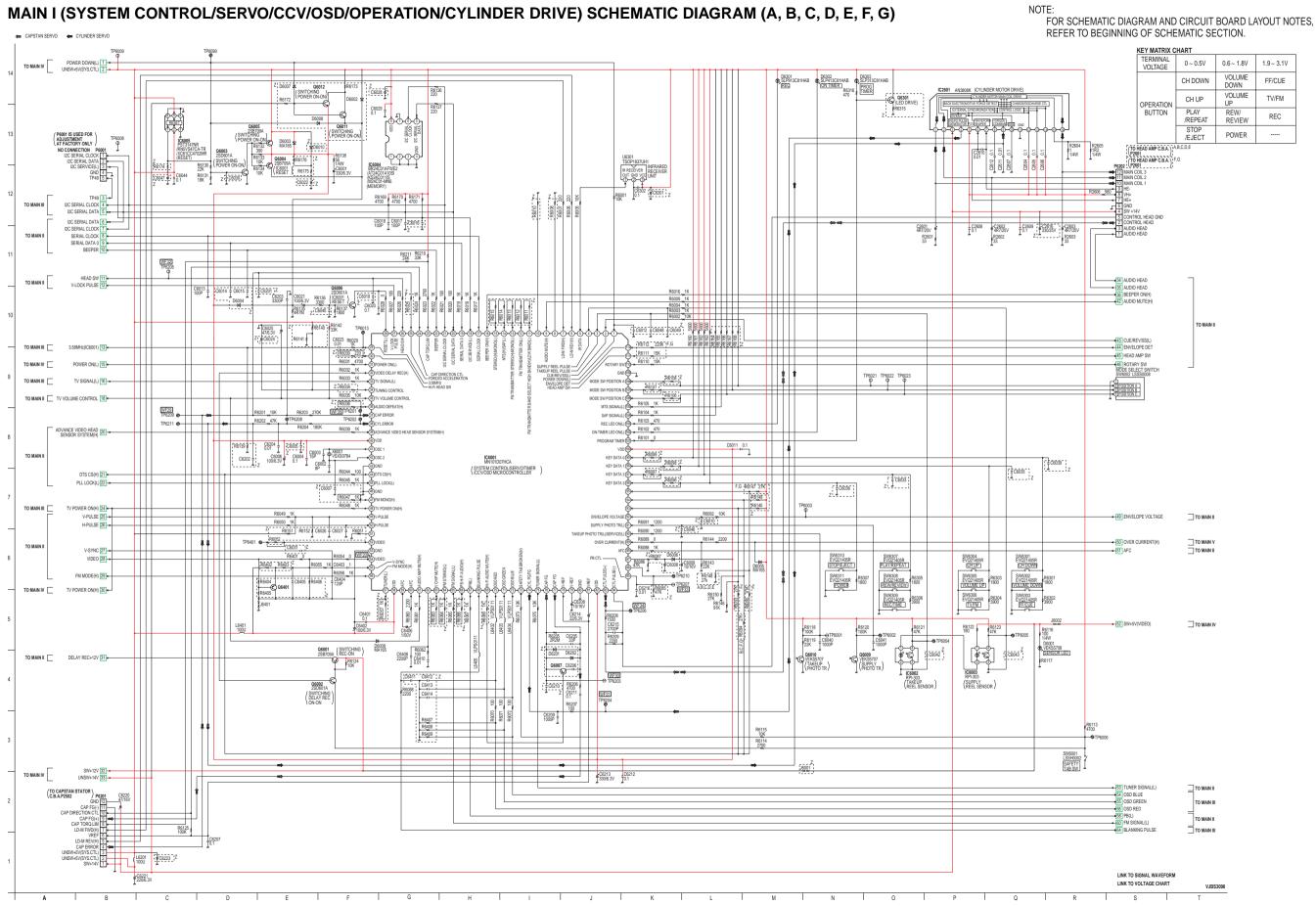
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART

OF MODELS & MARKS

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



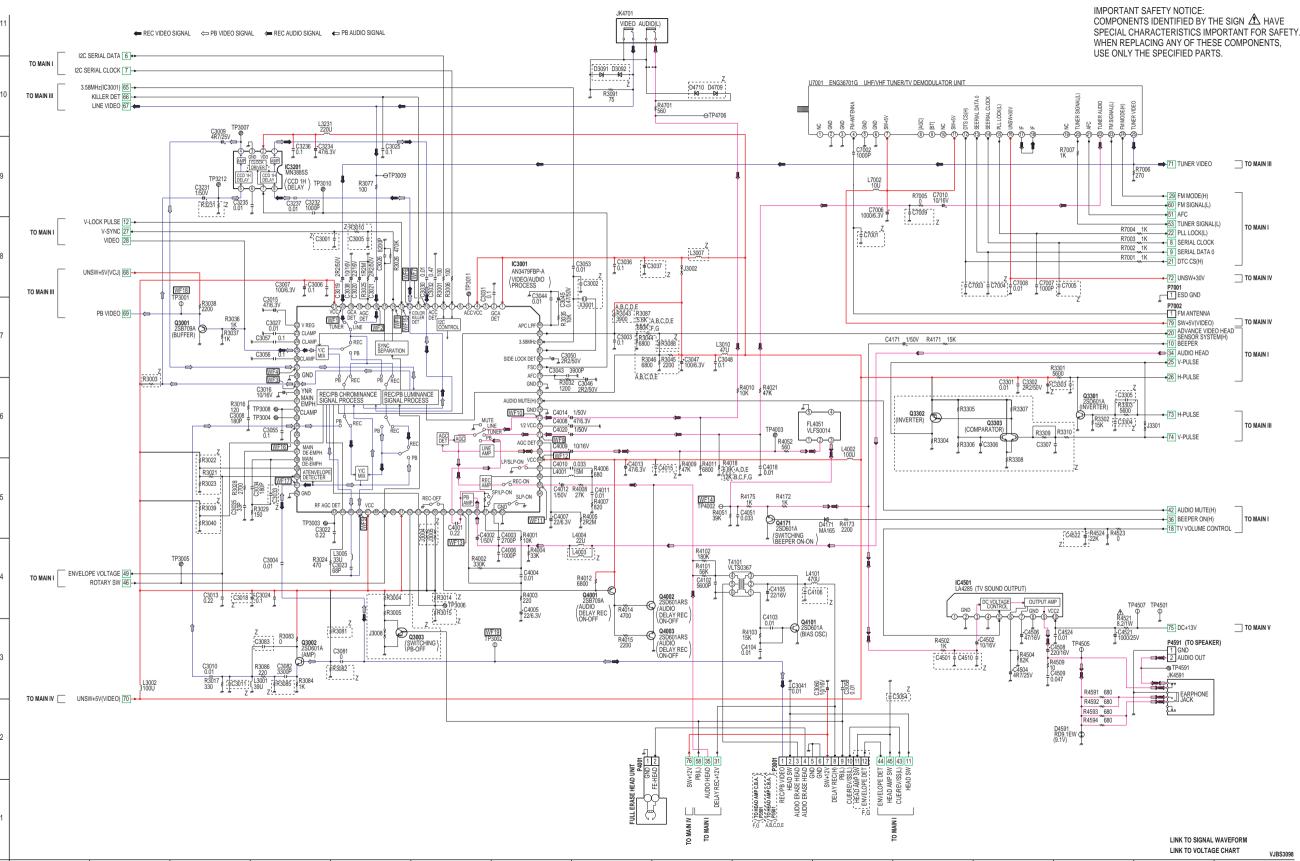


COMPARISON CHART OF MODELS & MARKS

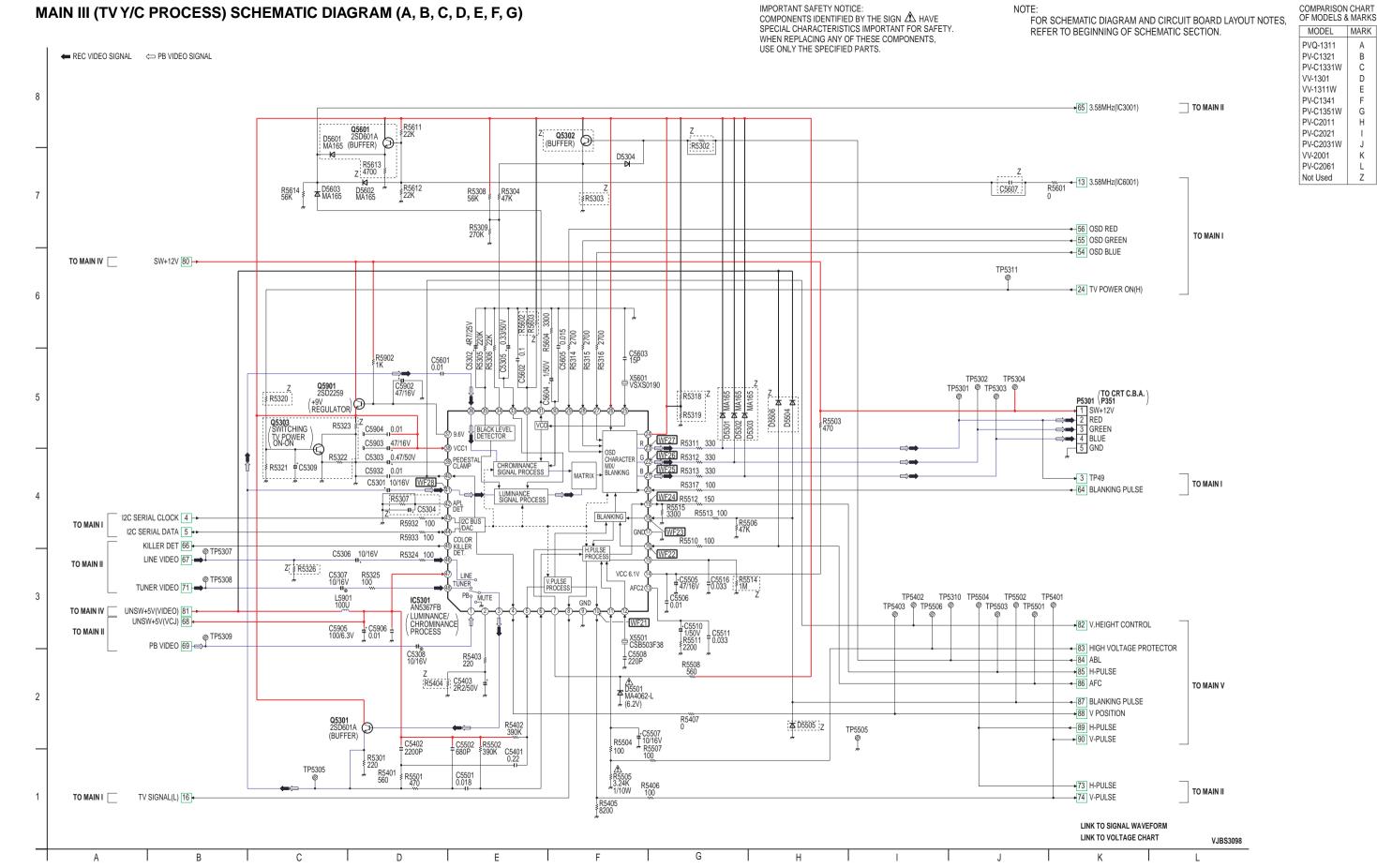
VV-2001 PV-C2061 Not Used MAIN II (SIGNAL PROCESS/AUDIO/DEMODULATOR) SCHEMATIC DIAGRAM (A, B, C, D, E, F, G)

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES. REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS PVQ-1311 PV-C1321 PV-C1331W VV-1301 VV-1311W PV-C1341 PV-C1351W G PV-C2011 PV-C2021 PV-C2031W VV-2001 PV-C2061 Not Used

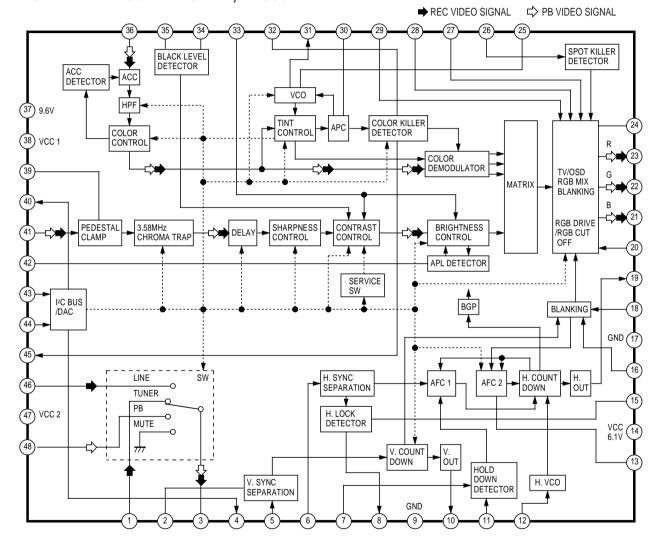


IC3001 VIDEO/AUDIO PROCESS IC-DETAIL BLOCK DIAGRAM, AN3479FBP-A REC VIDEO SIGNAL → PB VIDEO SIGNAL → PEC AUDIO SIGNAL → PB AUDIO SIGNAL (22) VREG CNR TUNER 1²C BUS COMPOSITE AGC LINE1___O BURST COMPONENT PB 3.58MHz CHROMA BPF UP/DOWN PHASE AGC DET COMPEN PB COLOR KILLER COMPONENT SATOR VXO ARTIFICIAL V/H SYNC MIX Y/C MIX X2 BPF 2FSC SW O PB ACC DET COMPOSITE CLAMP 4.8MHz GCA DETECTOR ◀ REC) TRAP SUB CONV 1/40 AFC ACC GAIN CTL AMP LPF CLAMP REC L SYNC SEPARATION РВ SIDE LOCK (28) GND MAIN REC CONV REC DELAY LPF GCA GCA DET REC YNR DOC SW OFFO CLAMP GND ьвÝ ROTARY CCD ►HPF ► LIMITER LPF рв о FREQUENCY ANR -----(75) 4 PHASE CONV APC SELECT ψòβ REC / PB NON LINEAR COLOR KILLER DETECTOR GND (74) DE-EMPHASIS NON LINEAR ►HPF ► LIMITER ► o_PB ▼ <u>MUTE</u> SUB LPF RF IN VCC W/D MAIN EMPHASIS O-REC RF FM MODULATOR CLAMP - CLAMP LP/SLP **О** РВ YREC MAIN DE-EMPHASIS REC 629kHz AMP LPF COLOR KILLER SW SP fH TRAP LINE AMP LP/SLP REC 🕹 VCC (68) PB 7/// DOUBLE FM DEMODULATOR 629KHz TRAP ENVE PB DETECTOR DETECTOR LP/SLP AT ENVE -ON DETEC-_S-VHS PEAKING BPF REC Y/C MIX /GAIN CTL AMP SP/LP-ON AMP PB AMP REC-ON REC-ON REC RE-8MHz SLP-ON PHASE COMPENSATOR (42) GND REC-ON REC-ON TRAP ROTARY



G

IC5301 LUMINANCE/CHROMINANCE PROCESS IC-DETAIL BLOCK DIAGRAM, AN5367FB



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

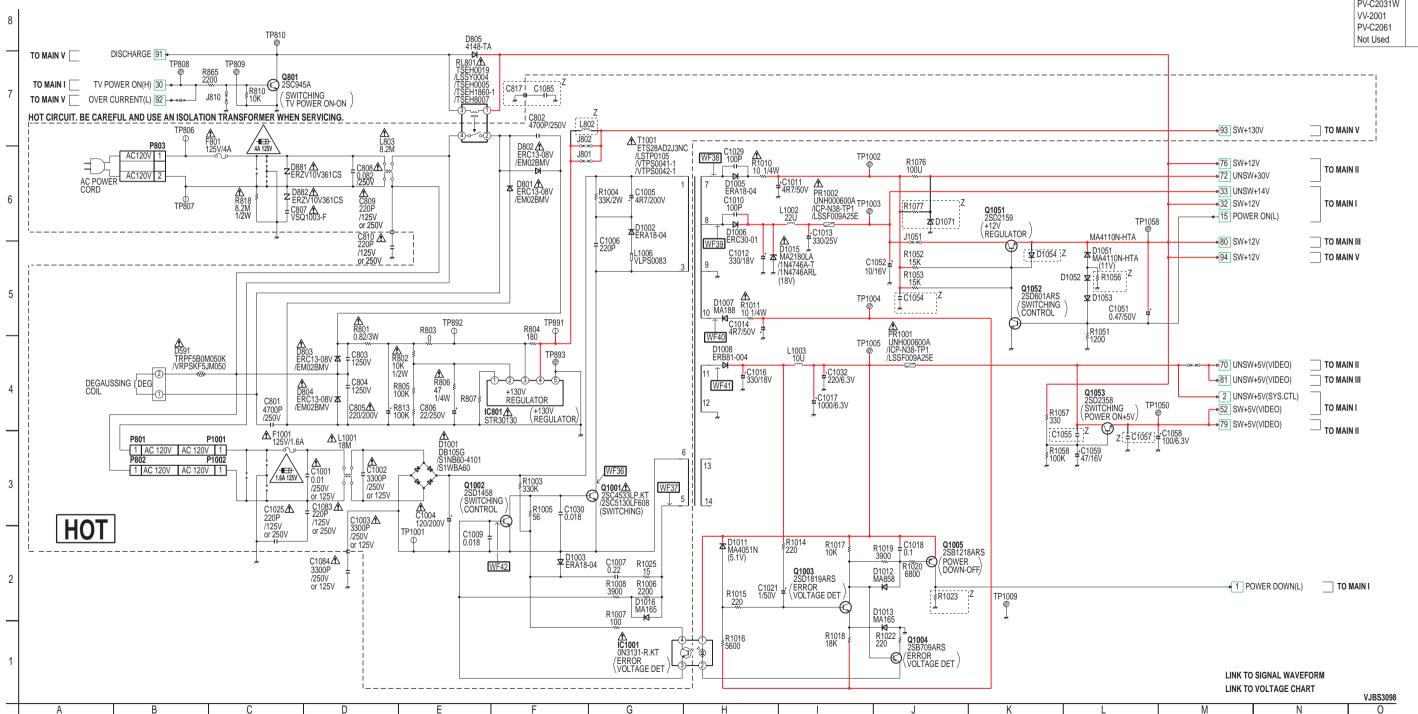
COMPARISON CHART OF MODELS & MARKS MODEL MARK

PVQ-1311 A
PV-C1321 B
PV-C1331W C
VV-1301 D
VV-1311W E
PV-C1341 F
PV-C1351W G
PV-C2011 H
PV-C2021 I
PV-C2031W J
VV-2001 K
PV-C2061 I

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 4A 125V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 4A 125V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 1.6A 125V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME
TYPE 1.6A 125V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



NOTE:

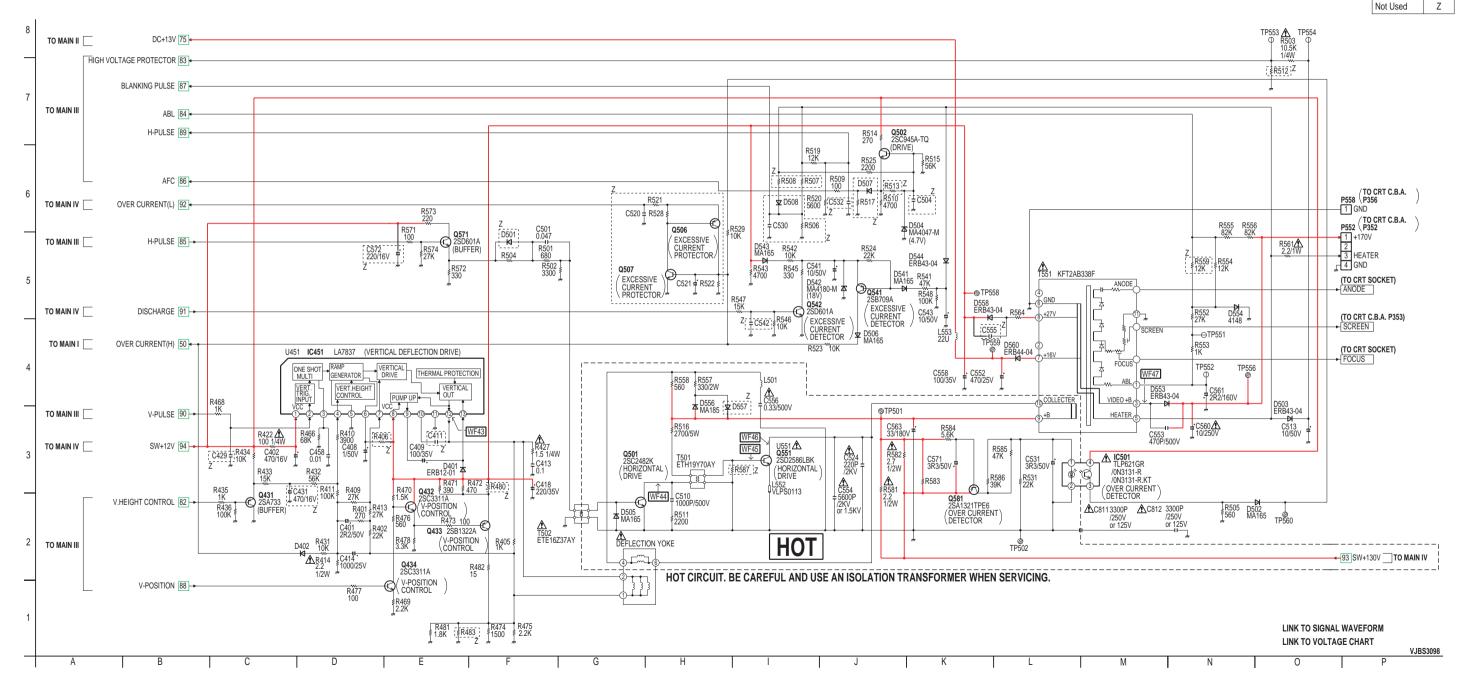
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL MARK
PVQ-1311 A
PV-C1321 B
PV-C1331W C
VV-1301 D
VV-1311W E
PV-C1341 F
PV-C1351W G
PV-C2011 H
PV-C2021 I
PV-C2021 I
PV-C2031W J
VV-2001 K
PV-C2061 L

COMPARISON CHART

OF MODELS & MARKS

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



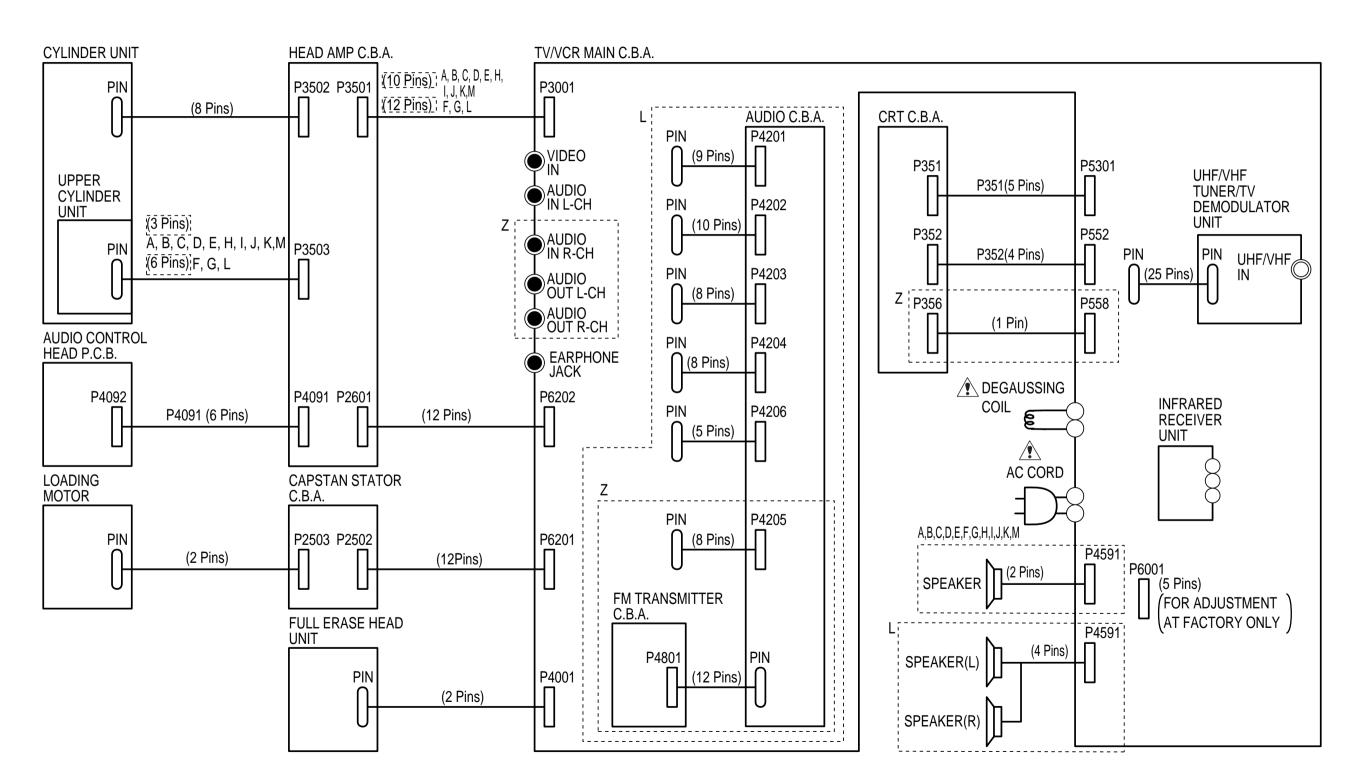
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	Е
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L
Not Used	Z



1. Important safety notice

Components identified by the sign \uparrow have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

Do not use the part number shown on this drawing for ordering.

The correct part number and part value is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

- Parts different in shape or size may be used.
 However, only interchangeable parts will be supplied as service replacement parts.
- 5. Test point information
 - ① :Test point with a jumper wire across a hole in P.C.B.
- - ②: Test point with no test pin.
 - :Test point with a test pin.

Schematic Diagram Notes

Indication for Zener Voltage of Zener Diodes
 The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to,

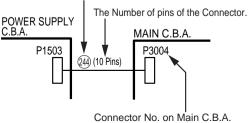
in other words, its counter part.

Use the interconnection schematic diagram to find the connection between associated connectors.

Example:

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts.



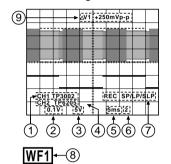
Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.

> Example: C3010 0.01 1 8 R3002 Z 1 10K

 The part number shown on this drawing is only main part number, except for safety parts. Be sure to make your orders of replacement parts according to the parts list.

Signal Waveform Note

How to read Signal Waveform



- 1) Connecting Point
- 2 Volts/Div
- 3 Volts/Div
- 4 Connecting Point
- (5) Time/Div
- 6 Trigger Channel of the scope (1:CH1,2:CH2)
- Operation Mode of VCR
- 8 Waveform Point on Schematic

Voltage Chart Note

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

Circuit Board Layout Note

Circuit Board Layout shows components installed for various models.

For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

NOTE:

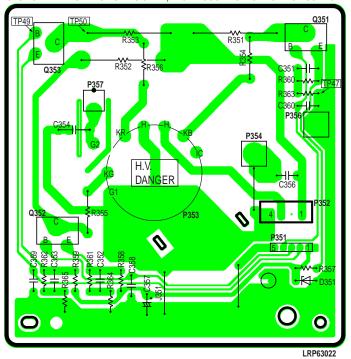
Circuit Board Layout includes components which are not used.

COMPARISON CHART OF MODELS & MARKS					
MODEL	MARK				
PVQ-1311	Α				
PV-C1321	В				
PV-C1331W	С				
VV-1301	D				
VV-1311W	E				
PV-C1341	F				
PV-C1351W	G				
PV-C2011	Н				
PV-C2021	- 1				
PV-C2031W	J				
VV-2001	K				
PV-C2061	L				
Not Used	Z				

Note: Refer to item 3 of Schematic Diagram Notes for mark "Z".

CRT C.B.A. LRP63022A (H, I, J, K, L)

CAUTION: WHEN SERVICING THIS C.B.A., AVOID TOUCHING HIGH VOLTAGE COMPONENTS.



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

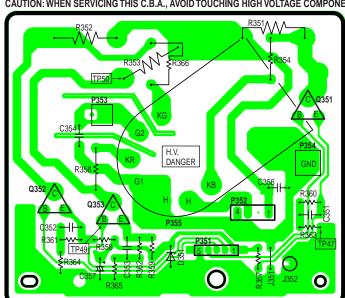
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L



CAUTION: WHEN SERVICING THIS C.B.A., AVOID TOUCHING HIGH VOLTAGE COMPONENTS.

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

LRP63004

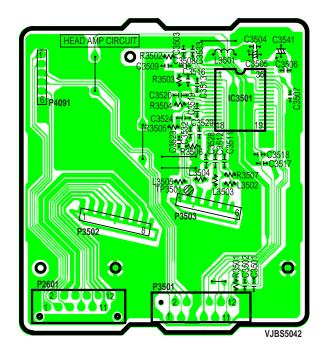
NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L

HEAD AMP C.B.A. VEPS5042A (F, G, L)



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

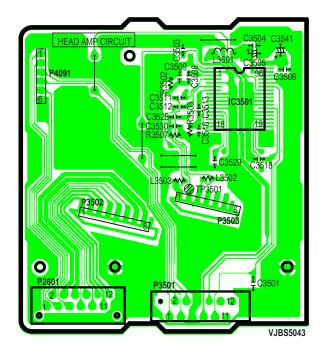
NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L

HEAD AMP C.B.A. VEPS5043A (A, B, C, D, E, H, I, J, K)



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

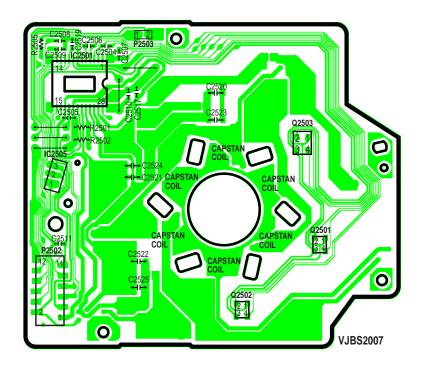
NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L

CAPSTAN STATOR C.B.A. VEMS0342



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

WHEN INSTALLING THE IC2501(AN3845SC) OR CAPSTAN STATOR C.B.A., BE SURE TO APPLY SILICON GREASE(VFK1301). REFER TO "CAPSTAN STATOR C.B.A." OF MACHANISM SECTION IN DISASSEMBLY/ASSEMBLY PROCEDURES.

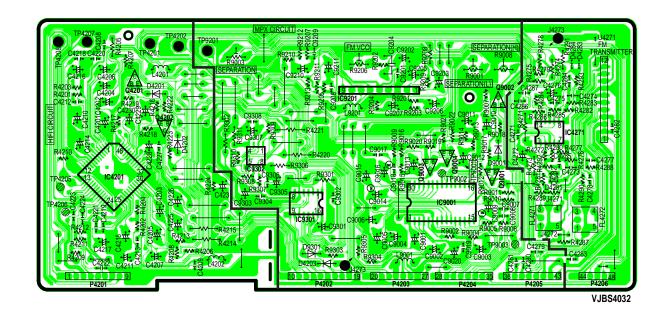
NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED. PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

NOTE:

THE FOLLOWING PARTS ON THE CAPSTAN STATOR C.B.A. ARE NOT SUPPLIED SEPARATELY. PLEASE ORDER AND REPLACE WITH THE CIRCUIT BOARD ASSEMBLY INSTEAD OF INDIVIDUAL PARTS. (Q2501, Q2502, Q2503, CAPSTAN COIL)

AUDIO C.B.A. VEPS4032A (L)



NOTE:

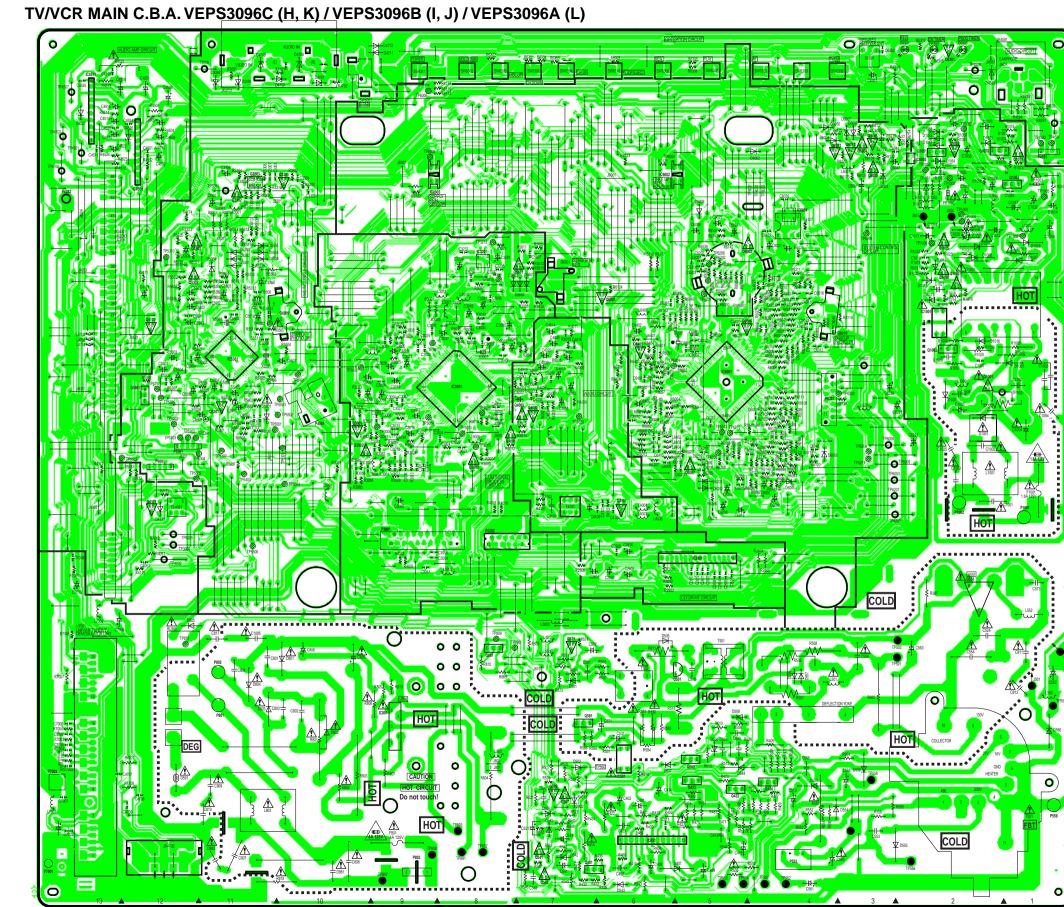
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	L



COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	Ε
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	- 1
PV-C2031W	J
VV-2001	K
PV-C2061	

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES. REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE <u>4A 125V</u> FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N'
TYPE <u>4A</u> 125V D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME

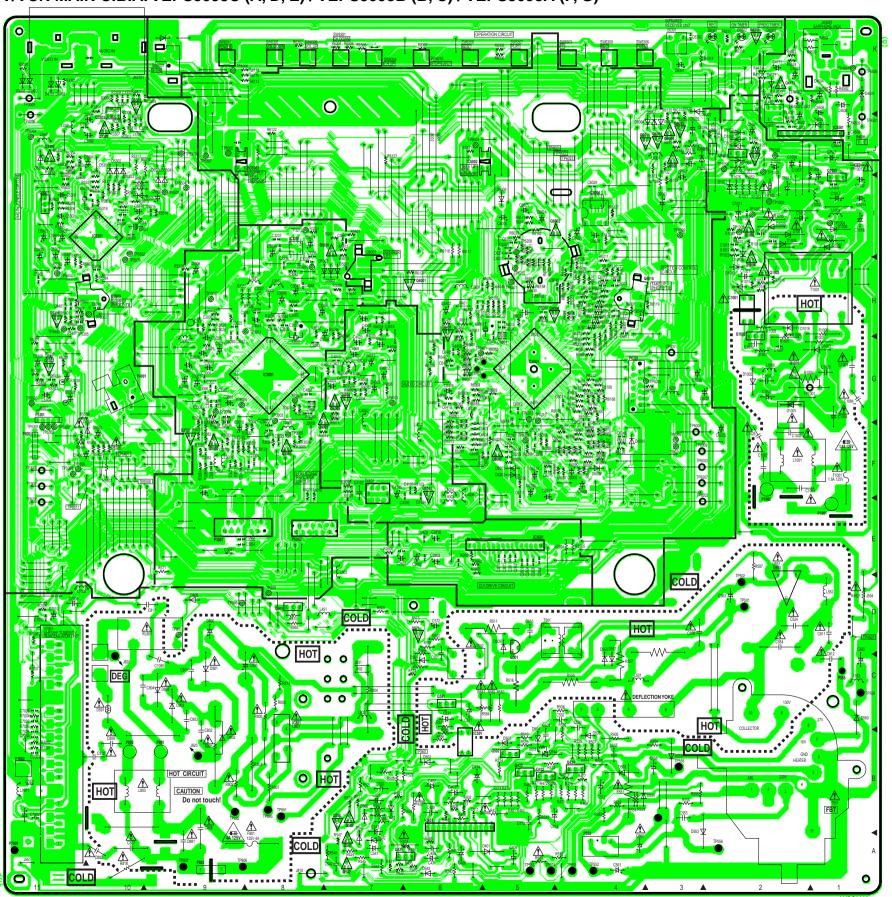


CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME 1.6A 125V D'T INCENDIE N'I TYPE 1.6A 125V

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

TV/VCR MAIN C.B.A. VEPS3098C (A, D, E) / VEPS3098B (B, C) / VEPS3098A (F, G)



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES. REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

MODEL PVQ-1311 PV-C1321 PV-C1331W VV-1301 VV-1311W PV-C1341 PV-C1351W PV-C2011 PV-C2021 PV-C2031W VV-2001 PV-C2061

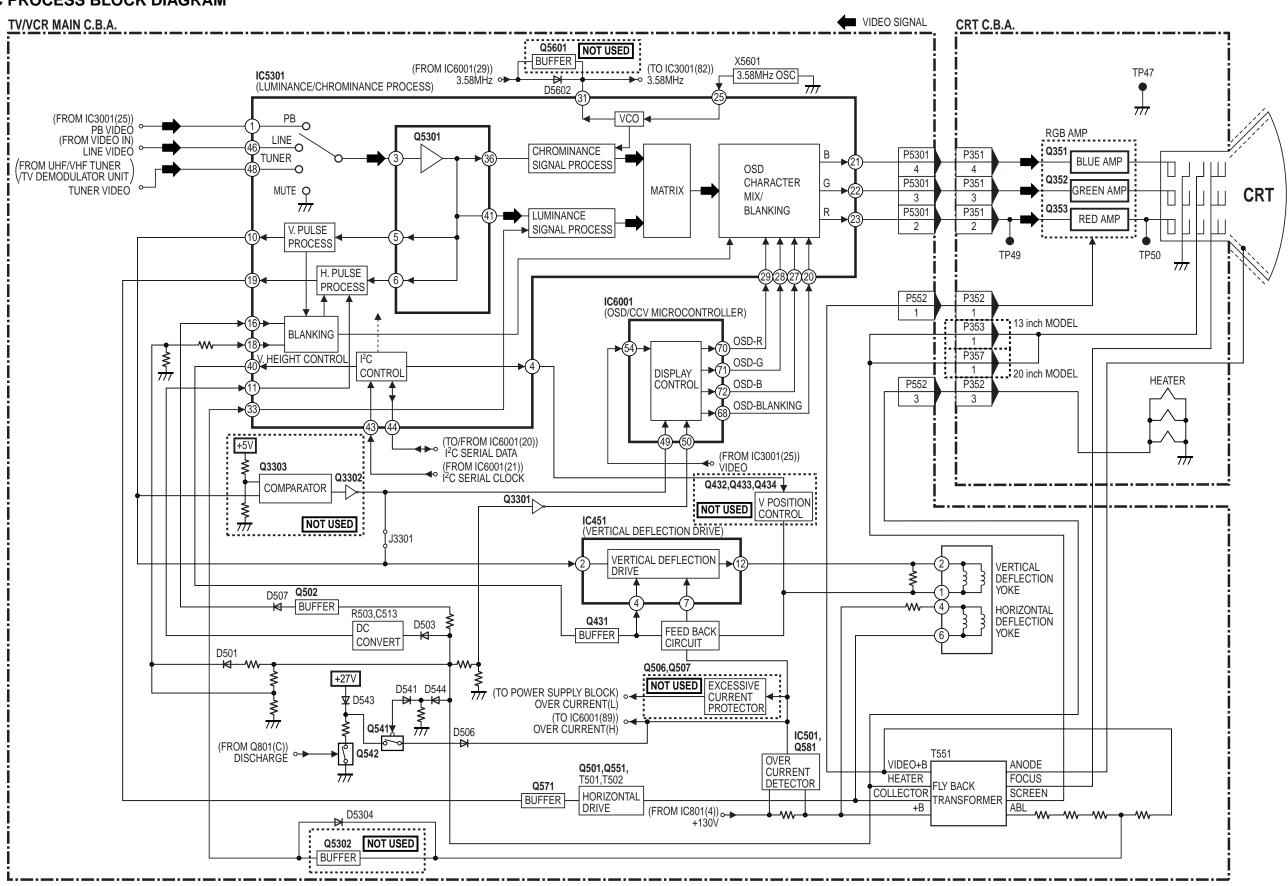
COMPARISON CHART OF MODELS & MARKS

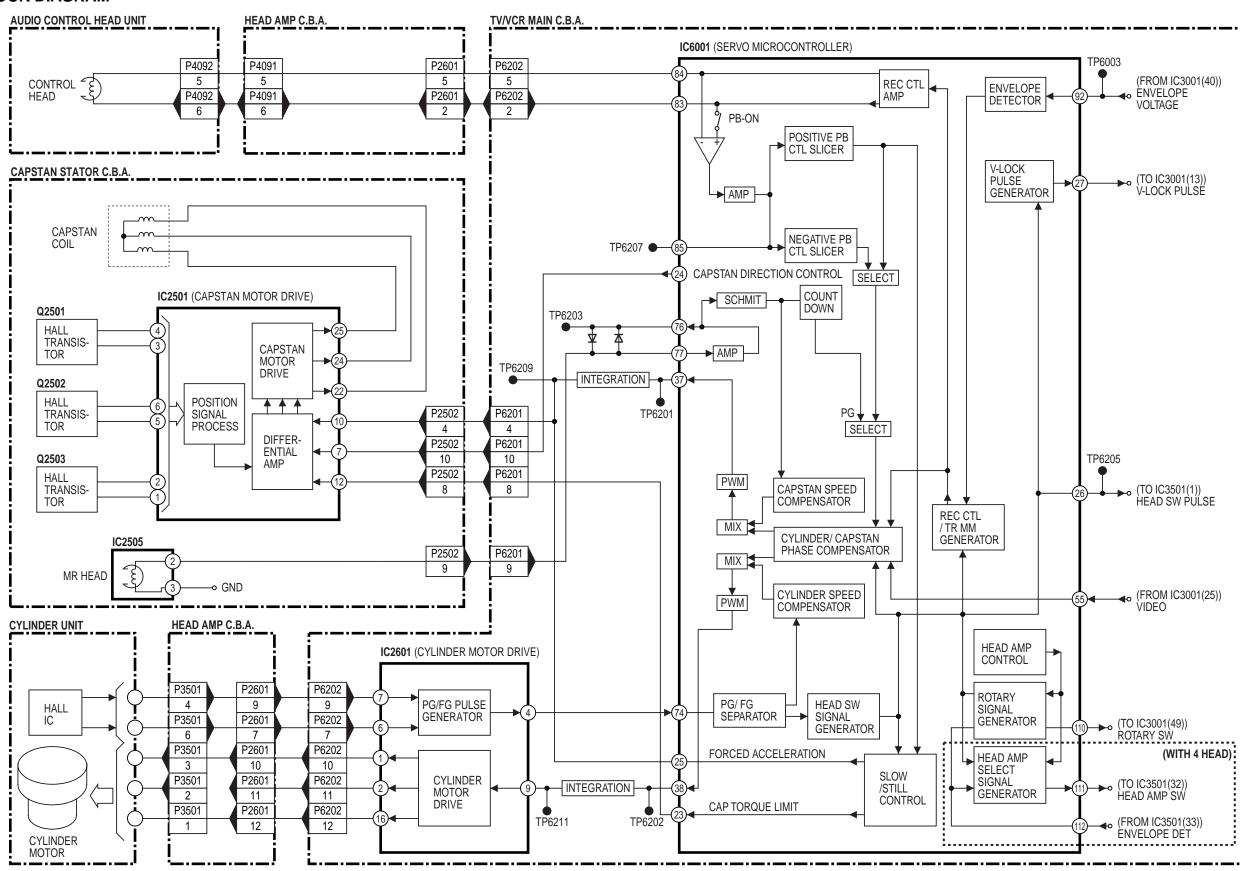
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME TYPE 4A 125V

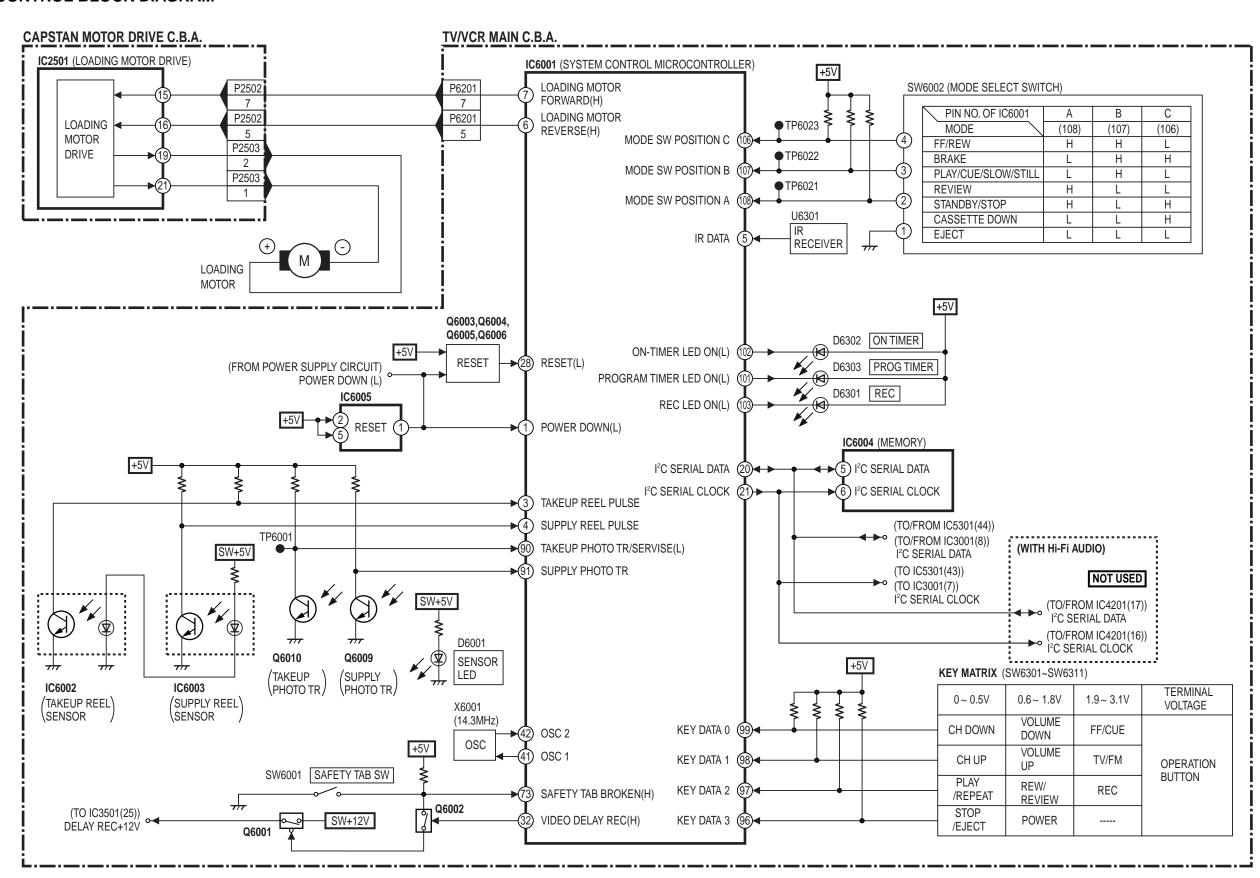
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME 1.6A 125V TYPE 1.6A 125V

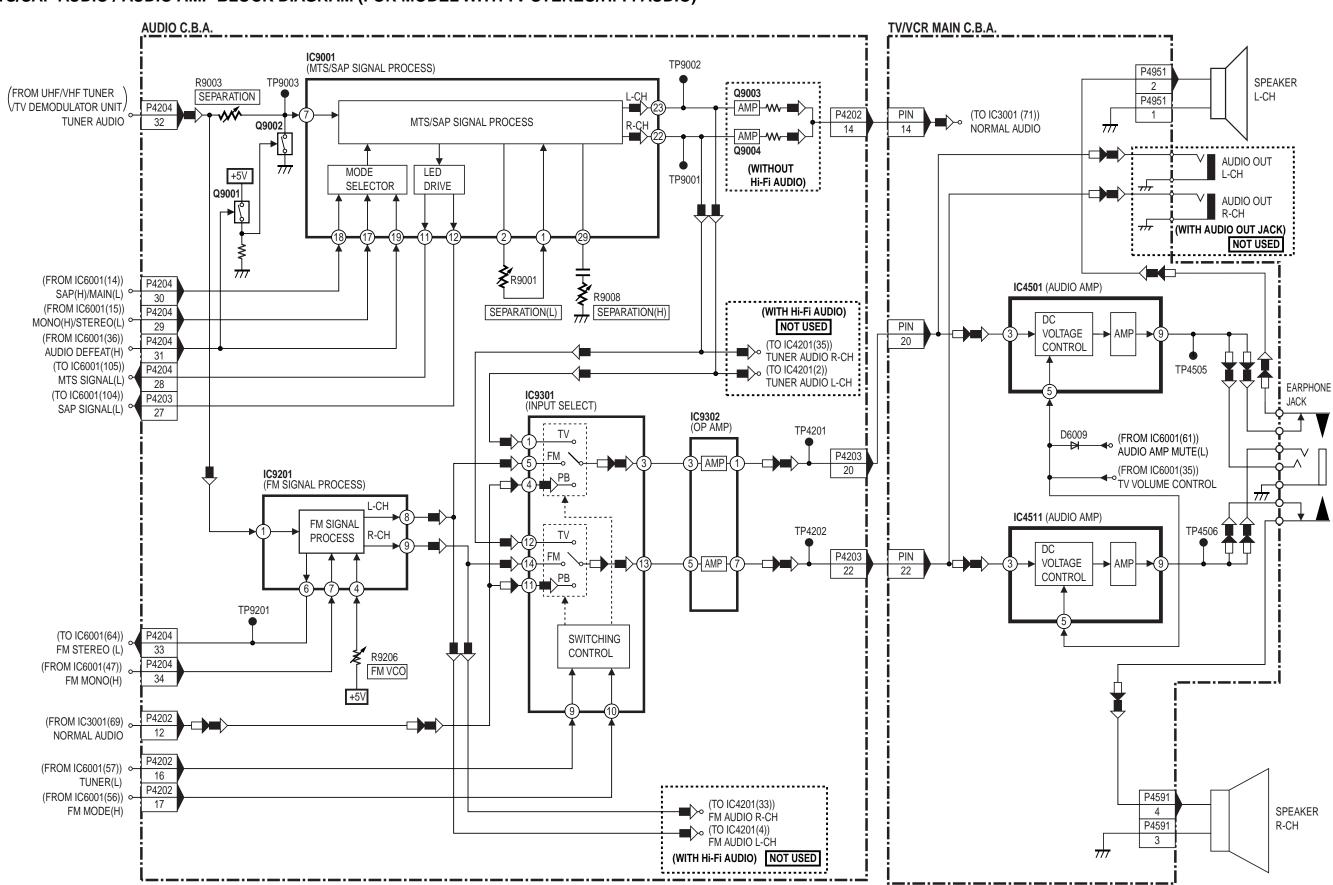
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

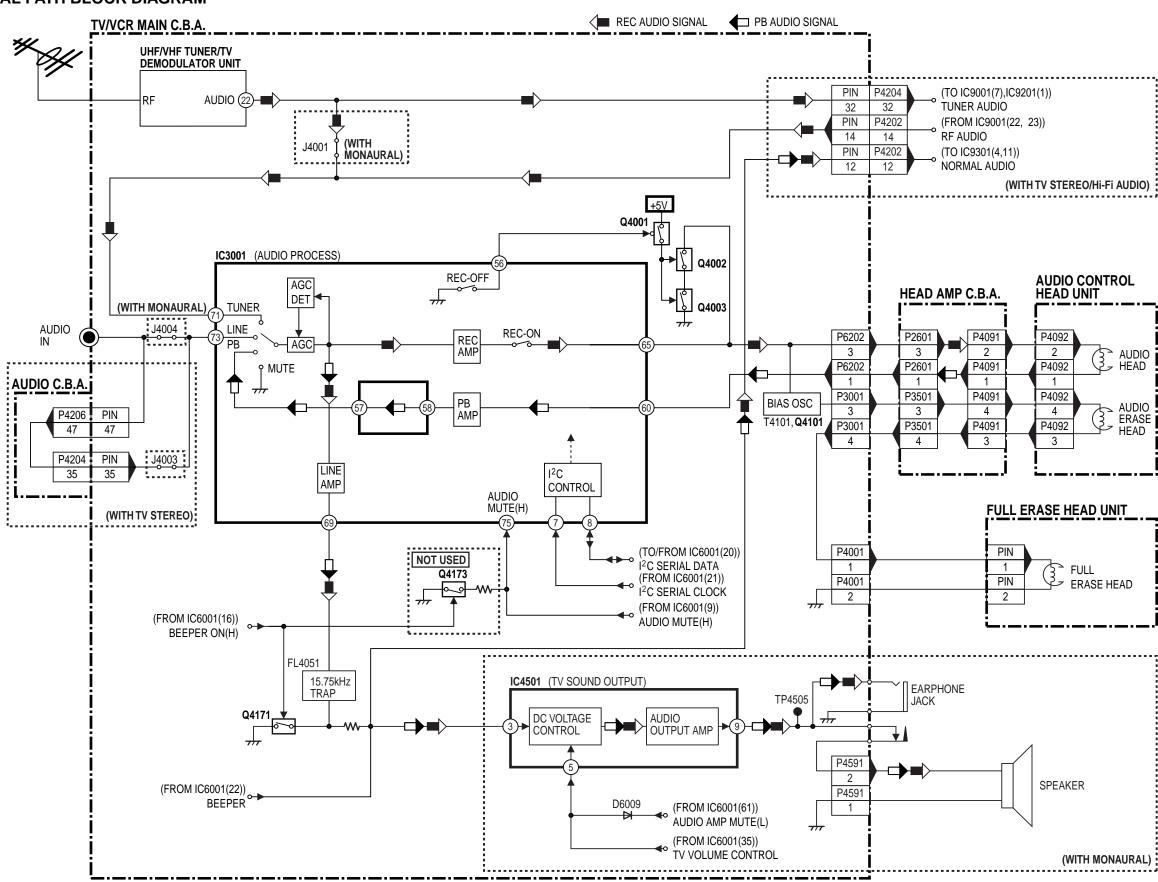
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

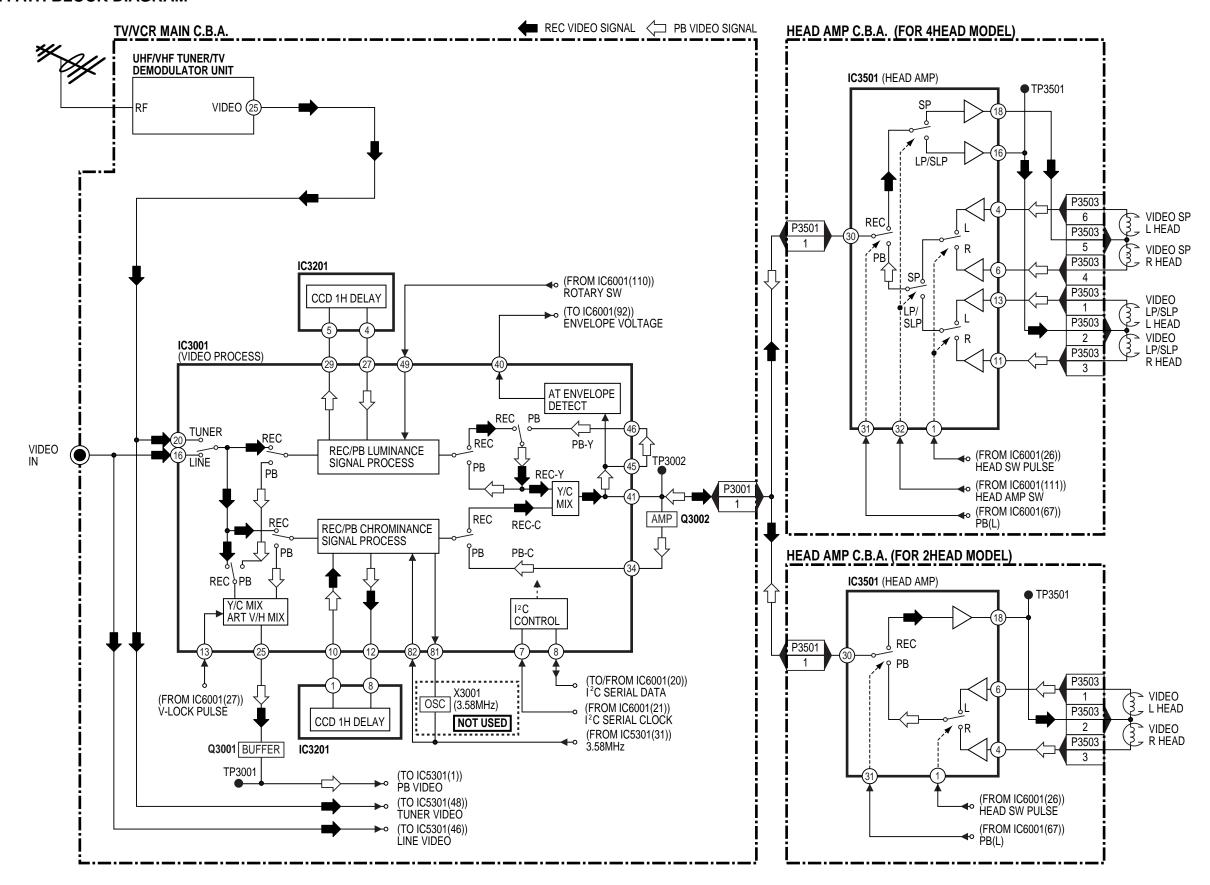












COMPARISON CHART

OF MODELS & MARKS

MARK

В

С

D

Е

G

Н

J

Κ

MODEL

PVQ-1311 PV-C1321

PV-C1331W

VV-1301

VV-1311W

PV-C1341

PV-C2011

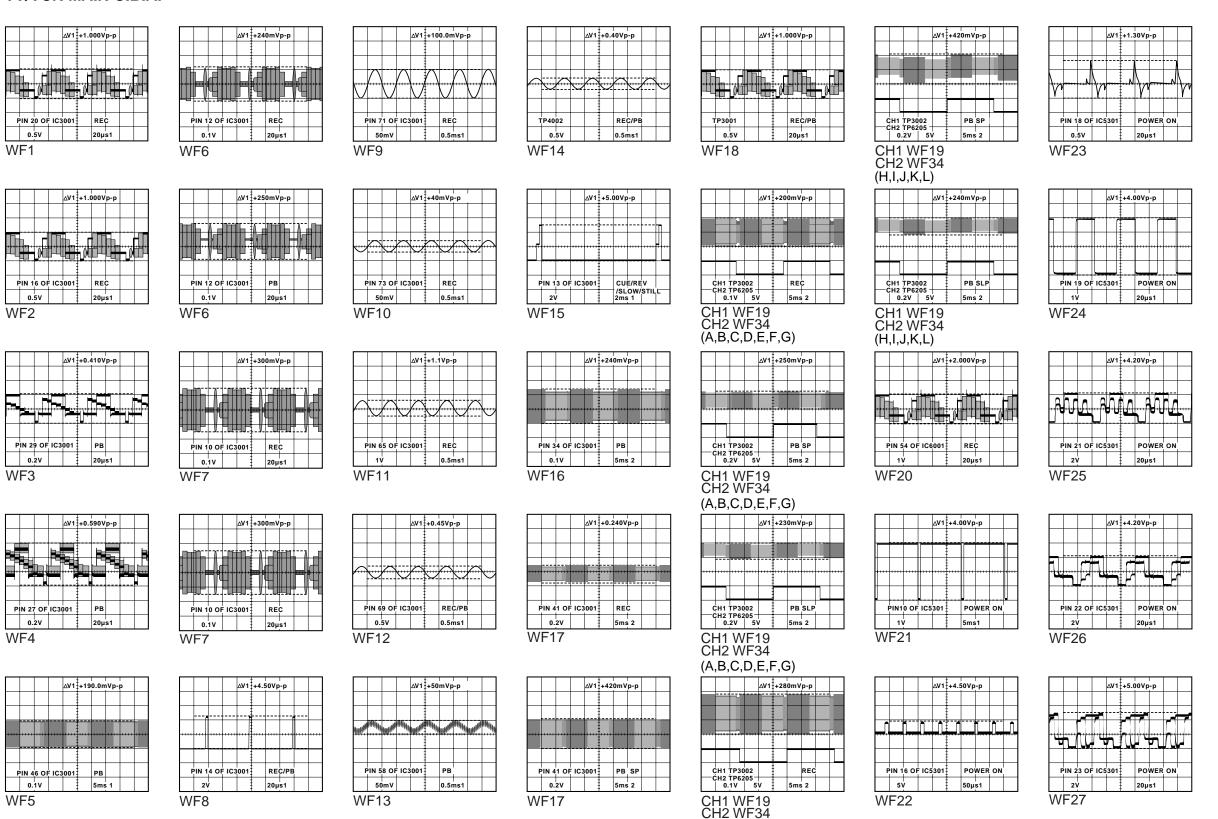
PV-C2021 PV-C2031W

VV-2001

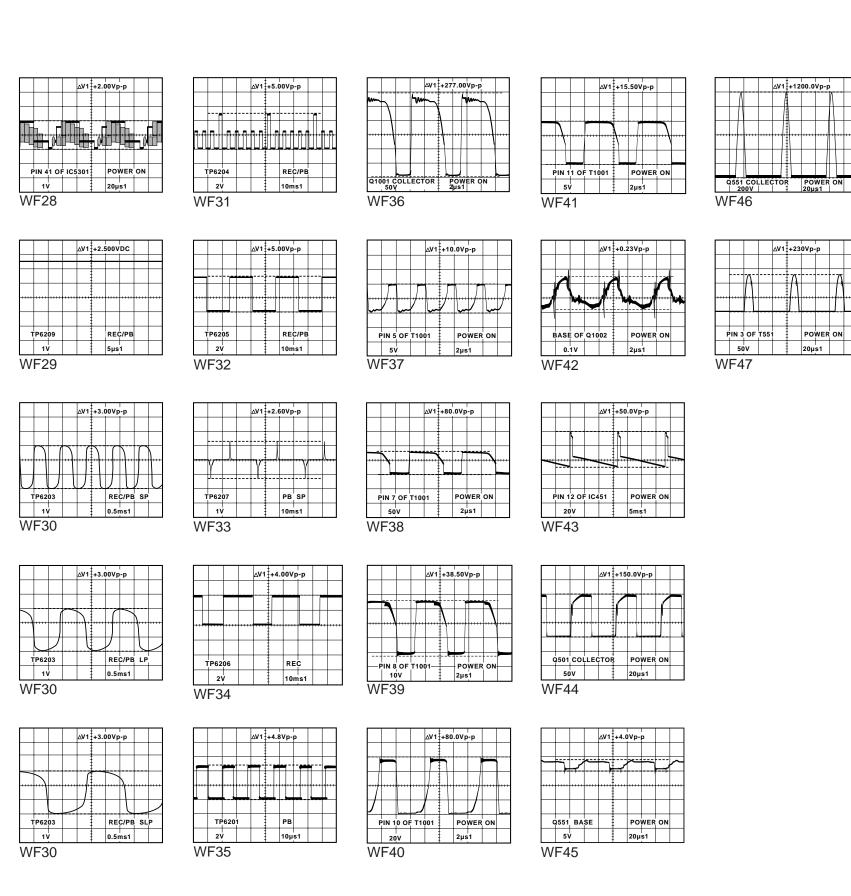
PV-C2061

PV-C1351W

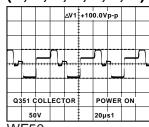
TV/VCR MAIN C.B.A.

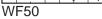


(H,I,J,K,L)

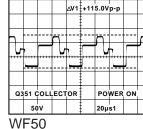


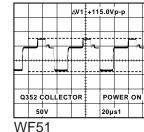
CRT C.B.A. CRT C.B.A. (A, B, C, D, E, F, G) (H, I, J, K, L)

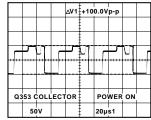




∆V1 +100.0Vp-p





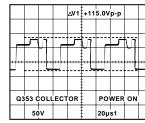


Q352 COLLECTOR POWER ON

50V 20µs1

WF51

WF52



WF52

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	Α
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	
PV-C2031W	J
VV-2001	K
PV-C2061	L

AUDIO C.B.A. (L)

HEAD AMP C.B.A.

CH1 TP3501 REC SLP
CH2 PIN 1 OF IC3501
2V 5ms 2

CH1 WF70

CH2 WF71

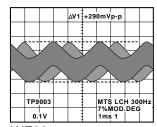
(A, B, C, D, E, H, I, J, K) (F, G, L)

∆V1 +4.80Vp-p

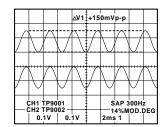
HEAD AMP C.B.A.

CH1 WF72 CH1 WF73

∆V1 +4.00Vp-p



WF60



CH1 WF62 CH2 WF62

				∆V1	+0.1	50V	p-p		
								l	
		\sim	/	7-			\wedge	7	$^{\sim}$
/	\bigcup		V			\bigvee		V	
		P900					ITS I		
—с		P900 1V		1 V		2ms	%МС 1	D.D	EG-

CH1 WF62 CH2 WF62

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PVQ-1311	A
PV-C1321	В
PV-C1331W	С
VV-1301	D
VV-1311W	E
PV-C1341	F
PV-C1351W	G
PV-C2011	Н
PV-C2021	I
PV-C2031W	J
VV-2001	K
PV-C2061	L